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Administration

Petroleum Supply Monthly

with data for July 2022

September 2022



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Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
- Imports by PADD
- Imports by country of origin
- Exports
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	365,785	--	--	204,719	34,422	-18,606	505,867	117,665	0	892,220
Hydrocarbon Gas Liquids	190,475	-696	26,252	4,320	--	21,772	16,165	68,603	113,811	208,447
Natural Gas Liquids	190,475	-696	17,446	3,789	--	21,522	16,165	68,603	104,724	206,402
Ethane	77,427	--	255	--	--	-2,356	--	12,176	67,862	47,510
Propane	58,867	--	9,027	2,665	--	10,031	--	39,970	20,558	64,130
Normal Butane	17,086	--	8,641	939	--	11,148	1,674	10,589	3,255	59,960
Isobutane	14,373	--	-477	179	--	610	7,426	116	5,923	10,021
Natural Gasoline	22,722	-696	--	6	--	2,089	7,065	5,752	7,126	24,781
Refinery Olefins	--	--	8,806	531	--	250	--	--	9,087	2,045
Ethylene	--	--	25	--	--	0	--	--	25	0
Propylene	--	--	8,582	429	--	1	--	--	9,010	1,229
Normal Butylene	--	--	193	102	--	211	--	--	84	708
Isobutylene	--	--	6	--	--	38	--	--	-32	108
Other Liquids	--	38,481	--	37,212	12,545	4,888	62,651	12,834	7,865	326,976
Hydrogen/Biofuels/Other Hydrocarbons	--	38,481	--	893	6,641	1,126	36,585	3,166	5,138	30,560
Hydrogen	--	--	--	--	6,942	--	6,942	--	0	--
Biofuels (including Fuel Ethanol)	--	38,481	--	877	-295	1,129	29,630	3,166	5,138	30,548
Fuel Ethanol ⁵	--	31,480	--	--	-295	917	27,709	2,559	0	24,165
Biofuels (excluding Fuel Ethanol)	--	7,001	--	877	--	212	1,921	607	5,138	6,383
Biodiesel	--	3,492	--	284	--	-195	1,362	607	2,002	3,045
Renewable Diesel Fuel	--	3,072	--	593	--	408	381	NA	2,876	3,148
Other Biofuels ⁶	--	437	--	--	--	-1	178	NA	260	190
Other Hydrocarbons	--	--	--	16	-6	-3	13	--	0	12
Unfinished Oils	--	--	--	19,254	--	-1,065	9,939	7,643	2,737	87,716
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	17,065	5,903	4,818	16,126	2,024	0	208,654
Reformulated	--	0	--	2,721	4,914	-891	8,522	4	0	46,906
Conventional	--	--	--	14,344	989	5,709	7,604	2,020	0	161,748
Aviation Gasoline Blend. Comp.	--	--	--	--	--	9	1	--	-10	46
Finished Petroleum Products	--	240	591,834	24,203	-5,609	2,430	--	99,256	508,982	255,834
Finished Motor Gasoline	--	226	296,717	4,045	-5,609	-171	--	24,332	271,218	16,960
Reformulated	--	--	90,834	--	-5,191	-10	--	--	85,653	22
Conventional	--	226	205,883	4,045	-417	-161	--	24,332	185,565	16,938
Finished Aviation Gasoline	--	--	315	15	--	48	--	--	282	1,151
Kerosene-Type Jet Fuel	--	12	53,430	4,346	--	1,919	--	6,313	49,556	41,232
Kerosene	--	--	289	--	--	149	--	--	140	1,082
Distillate Fuel Oil ⁵	--	2	158,685	5,249	--	1,169	--	47,479	115,288	112,525
15 ppm sulfur and under	--	2	151,254	5,189	--	2,353	--	40,979	113,113	102,817
Greater than 15 ppm to 500 ppm sulfur	--	0	3,143	26	--	-346	--	3,268	247	2,662
Greater than 500 ppm sulfur	--	--	4,288	34	--	-838	--	3,232	1,928	7,046
Residual Fuel Oil	--	--	6,750	4,946	--	-91	--	1,643	10,144	29,106
Less than 0.31 percent sulfur	--	--	1,361	--	--	112	--	NA	NA	2,534
0.31 to 1.00 percent sulfur	--	--	3,614	517	--	-284	--	NA	NA	7,044
Greater than 1.00 percent sulfur	--	--	1,775	4,429	--	81	--	NA	NA	19,528
Petrochemical Feedstocks	--	--	7,626	594	--	80	--	--	8,140	2,624
Naphtha for Petro. Feed. Use	--	--	3,958	461	--	37	--	--	4,382	1,877
Other Oils for Petro. Feed. Use	--	--	3,668	133	--	43	--	--	3,758	747
Special Naphthas	--	--	1,032	453	--	-60	--	--	1,545	1,074
Lubricants	--	--	5,101	1,721	--	778	--	3,853	2,191	11,471
Waxes	--	--	186	208	--	13	--	142	239	507
Petroleum Coke	--	--	25,768	448	--	-201	--	15,100	11,317	8,492
Marketable	--	--	19,395	448	--	-201	--	15,100	4,944	8,492
Catalyst	--	--	6,373	--	--	--	--	--	6,373	--
Asphalt and Road Oil	--	--	11,279	2,177	--	-1,238	--	317	14,377	28,731
Still Gas	--	--	21,794	--	--	--	--	--	21,794	--
Miscellaneous Products	--	--	2,862	1	--	35	--	77	2,751	878
Total	556,260	38,025	618,086	270,454	41,358	10,485	584,683	298,358	630,658	1,683,477

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	2,461,999	--	--	1,340,815	172,042	-122,882	3,369,738	728,000	0	892,220
Hydrocarbon Gas Liquids	1,234,821	-4,665	146,643	36,708	--	14,942	119,809	503,858	774,898	208,447
Natural Gas Liquids	1,234,821	-4,665	87,600	33,218	--	14,985	119,809	503,858	712,322	206,402
Ethane	508,128	--	1,396	--	--	-15,673	--	94,200	430,997	47,510
Propane	386,475	--	60,468	24,465	--	534	--	291,072	179,802	64,130
Normal Butane	110,567	--	28,590	7,156	--	25,679	29,866	80,729	10,039	59,960
Isobutane	93,474	--	-2,854	1,561	--	347	47,198	1,078	43,558	10,021
Natural Gasoline	136,177	-4,665	--	36	--	4,098	42,745	36,779	47,926	24,781
Refinery Olefins	--	--	59,043	3,490	--	-43	--	--	62,576	2,045
Ethylene	--	--	167	--	--	0	--	--	167	0
Propylene	--	--	59,252	2,996	--	-168	--	--	62,416	1,229
Normal Butylene	--	--	-493	494	--	62	--	--	-61	708
Isobutylene	--	--	117	--	--	63	--	--	54	108
Other Liquids	--	258,649	--	240,376	53,195	3,560	387,377	111,376	49,907	326,976
Hydrogen/Biofuels/Other Hydrocarbons	--	258,651	--	7,100	42,126	1,914	246,977	26,674	32,312	30,560
Hydrogen	--	--	--	--	46,831	--	46,831	--	0	--
Biofuels (including Fuel Ethanol)	--	258,651	--	7,035	-4,726	1,918	200,056	26,674	32,312	30,548
Fuel Ethanol ⁵	--	215,152	--	507	-4,726	2,154	186,519	22,260	0	24,165
Biofuels (excluding Fuel Ethanol)	--	43,498	--	6,528	--	-237	13,537	4,414	32,312	6,383
Biodiesel	--	21,753	--	2,762	--	-1,139	9,425	4,414	11,816	3,045
Renewable Diesel Fuel	--	19,388	--	3,716	--	796	2,460	NA	19,849	3,148
Other Biofuels ⁶	--	2,357	--	50	--	107	1,652	NA	648	190
Other Hydrocarbons	--	--	--	65	21	-4	90	--	0	12
Unfinished Oils	--	--	--	113,973	--	7,465	18,370	70,754	17,384	87,716
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-2	--	119,303	11,069	-5,840	122,262	13,949	0	208,654
Reformulated	--	-2	--	33,773	34,218	-451	68,416	25	0	46,906
Conventional	--	--	--	85,530	-23,149	-5,389	53,846	13,924	0	161,748
Aviation Gasoline Blend. Comp.	--	--	--	--	--	21	-232	--	211	46
Finished Petroleum Products	--	1,271	3,946,494	168,527	-6,343	-4,798	--	644,906	3,469,841	255,834
Finished Motor Gasoline	--	1,202	2,012,712	21,528	-6,343	-782	--	177,186	1,852,694	16,960
Reformulated	--	--	620,456	--	-32,428	0	--	--	588,028	22
Conventional	--	1,202	1,392,256	21,528	26,085	-782	--	177,186	1,264,666	16,938
Finished Aviation Gasoline	--	--	2,084	222	--	-100	--	--	2,406	1,151
Kerosene-Type Jet Fuel	--	55	342,385	26,539	--	5,435	--	37,275	326,270	41,232
Kerosene	--	0	1,062	18	--	-1,163	--	1,351	892	1,082
Distillate Fuel Oil ⁵	--	14	1,043,666	42,703	--	-17,403	--	261,905	841,881	112,525
15 ppm sulfur and under	--	14	998,346	41,155	--	-17,362	--	221,249	835,628	102,817
Greater than 15 ppm to 500 ppm sulfur	--	0	20,459	1,059	--	-123	--	20,110	1,531	2,662
Greater than 500 ppm sulfur	--	0	24,861	489	--	82	--	20,546	4,722	7,046
Residual Fuel Oil	--	--	50,752	47,644	--	3,717	--	22,116	72,563	29,106
Less than 0.31 percent sulfur	--	--	8,169	880	--	-6	--	NA	NA	2,534
0.31 to 1.00 percent sulfur	--	--	22,947	6,397	--	732	--	NA	NA	7,044
Greater than 1.00 percent sulfur	--	--	19,636	40,367	--	2,991	--	NA	NA	19,528
Petrochemical Feedstocks	--	--	48,674	3,309	--	84	--	--	51,899	2,624
Naphtha for Petro. Feed. Use	--	--	28,295	2,592	--	-5	--	--	30,892	1,877
Other Oils for Petro. Feed. Use	--	--	20,379	717	--	89	--	--	21,007	747
Special Naphthas	--	--	7,630	2,065	--	26	--	--	9,669	1,074
Lubricants	--	--	35,096	9,892	--	-1,363	--	22,613	23,738	11,471
Waxes	--	--	1,203	1,273	--	-42	--	1,017	1,501	507
Petroleum Coke	--	--	171,215	2,153	--	1,672	--	117,840	53,856	8,492
Marketable	--	--	128,693	2,153	--	1,672	--	117,840	11,334	8,492
Catalyst	--	--	42,522	--	--	--	--	--	42,522	--
Asphalt and Road Oil	--	--	71,328	11,174	--	4,864	--	3,218	74,420	28,731
Still Gas	--	--	139,655	--	--	--	--	--	139,655	--
Miscellaneous Products	--	--	19,032	7	--	257	--	386	18,396	878
Total	3,696,820	255,255	4,093,137	1,786,426	218,894	-109,178	3,876,924	1,988,140	4,294,647	1,683,477

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

1 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

2 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

3 Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

4 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

5 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

6 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,800	--	--	6,604	1,110	-600	16,318	3,796	0
Hydrocarbon Gas Liquids	6,144	-22	847	139	--	702	521	2,213	3,671
Natural Gas Liquids	6,144	-22	563	122	--	694	521	2,213	3,378
Ethane	2,498	--	8	--	--	-76	--	393	2,189
Propane	1,899	--	291	86	--	324	--	1,289	663
Normal Butane	551	--	279	30	--	360	54	342	105
Isobutane	464	--	-15	6	--	20	240	4	191
Natural Gasoline	733	-22	--	0	--	67	228	186	230
Refinery Olefins	--	--	284	17	--	8	--	--	293
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	277	14	--	0	--	--	291
Normal Butylene	--	--	6	3	--	7	--	--	3
Isobutylene	--	--	0	--	--	1	--	--	-1
Other Liquids	--	1,241	--	1,200	405	158	2,021	414	254
Hydrogen/Biofuels/Other Hydrocarbons	--	1,241	--	29	214	36	1,180	102	166
Hydrogen	--	--	--	--	224	--	224	--	0
Biofuels (including Fuel Ethanol)	--	1,241	--	28	-10	36	956	102	166
Fuel Ethanol ⁵	--	1,015	--	--	-10	30	894	83	0
Biofuels (excluding Fuel Ethanol)	--	226	--	28	--	7	62	20	166
Biodiesel	--	113	--	9	--	-6	44	20	65
Renewable Diesel Fuel	--	99	--	19	--	13	12	NA	93
Other Biofuels ⁶	--	14	--	--	--	0	6	NA	8
Other Hydrocarbons	--	--	--	1	0	0	0	--	0
Unfinished Oils	--	--	--	621	--	-34	321	247	88
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	550	190	155	520	65	0
Reformulated	--	0	--	88	159	-29	275	0	0
Conventional	--	--	--	463	32	184	245	65	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	8	19,091	781	-181	78	--	3,202	16,419
Finished Motor Gasoline	--	7	9,572	130	-181	-6	--	785	8,749
Reformulated	--	--	2,930	--	-167	0	--	--	2,763
Conventional	--	7	6,641	130	-13	-5	--	785	5,986
Finished Aviation Gasoline	--	--	10	0	--	2	--	--	9
Kerosene-Type Jet Fuel	--	0	1,724	140	--	62	--	204	1,599
Kerosene	--	--	9	--	--	5	--	--	5
Distillate Fuel Oil ⁵	--	0	5,119	169	--	38	--	1,532	3,719
15 ppm sulfur and under	--	0	4,879	167	--	76	--	1,322	3,649
Greater than 15 ppm to 500 ppm sulfur	--	0	101	1	--	-11	--	105	8
Greater than 500 ppm sulfur	--	--	138	1	--	-27	--	104	62
Residual Fuel Oil	--	--	218	160	--	-3	--	53	327
Less than 0.31 percent sulfur	--	--	44	--	--	4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	117	17	--	-9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	57	143	--	3	--	NA	NA
Petrochemical Feedstocks	--	--	246	19	--	3	--	--	263
Naphtha for Petro. Feed. Use	--	--	128	15	--	1	--	--	141
Other Oils for Petro. Feed. Use	--	--	118	4	--	1	--	--	121
Special Naphthas	--	--	33	15	--	-2	--	--	50
Lubricants	--	--	165	56	--	25	--	124	71
Waxes	--	--	6	7	--	0	--	5	8
Petroleum Coke	--	--	831	14	--	-6	--	487	365
Marketable	--	--	626	14	--	-6	--	487	159
Catalyst	--	--	206	--	--	--	--	--	206
Asphalt and Road Oil	--	--	364	70	--	-40	--	10	464
Still Gas	--	--	703	--	--	--	--	--	703
Miscellaneous Products	--	--	92	0	--	1	--	2	89
Total	17,944	1,227	19,938	8,724	1,334	338	18,861	9,624	20,344

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	11,613	--	--	6,325	812	-580	15,895	3,434	0
Hydrocarbon Gas Liquids	5,825	-22	692	173	--	70	565	2,377	3,655
Natural Gas Liquids	5,825	-22	413	157	--	71	565	2,377	3,360
Ethane	2,397	--	7	--	--	-74	--	444	2,033
Propane	1,823	--	285	115	--	3	--	1,373	848
Normal Butane	522	--	135	34	--	121	141	381	47
Isobutane	441	--	-13	7	--	2	223	5	205
Natural Gasoline	642	-22	--	0	--	19	202	173	226
Refinery Olefins	--	--	279	16	--	0	--	--	295
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	279	14	--	-1	--	--	294
Normal Butylene	--	--	-2	2	--	0	--	--	0
Isobutylene	--	--	1	--	--	0	--	--	0
Other Liquids	--	1,220	--	1,134	251	17	1,827	525	235
Hydrogen/Biofuels/Other Hydrocarbons	--	1,220	--	33	199	9	1,165	126	152
Hydrogen	--	--	--	--	221	--	221	--	0
Biofuels (including Fuel Ethanol)	--	1,220	--	33	-22	9	944	126	152
Fuel Ethanol ⁵	--	1,015	--	2	-22	10	880	105	0
Biofuels (excluding Fuel Ethanol)	--	205	--	31	--	-1	64	21	152
Biodiesel	--	103	--	13	--	-5	44	21	56
Renewable Diesel Fuel	--	91	--	18	--	4	12	NA	94
Other Biofuels ⁶	--	11	--	0	--	1	8	NA	3
Other Hydrocarbons	--	--	--	0	0	0	0	--	0
Unfinished Oils	--	--	--	538	--	35	87	334	82
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	563	52	-28	577	66	0
Reformulated	--	0	--	159	161	-2	323	0	0
Conventional	--	--	--	403	-109	-25	254	66	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	-1	--	1
Finished Petroleum Products	--	6	18,616	795	-30	-23	--	3,042	16,367
Finished Motor Gasoline	--	6	9,494	102	-30	-4	--	836	8,739
Reformulated	--	--	2,927	--	-153	0	--	--	2,774
Conventional	--	6	6,567	102	123	-4	--	836	5,965
Finished Aviation Gasoline	--	--	10	1	--	0	--	--	11
Kerosene-Type Jet Fuel	--	0	1,615	125	--	26	--	176	1,539
Kerosene	--	0	5	0	--	-5	--	6	4
Distillate Fuel Oil ⁵	--	0	4,923	201	--	-82	--	1,235	3,971
15 ppm sulfur and under	--	0	4,709	194	--	-82	--	1,044	3,942
Greater than 15 ppm to 500 ppm sulfur	--	0	97	5	--	-1	--	95	7
Greater than 500 ppm sulfur	--	0	117	2	--	0	--	97	22
Residual Fuel Oil	--	--	239	225	--	18	--	104	342
Less than 0.31 percent sulfur	--	--	39	4	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	108	30	--	3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	93	190	--	14	--	NA	NA
Petrochemical Feedstocks	--	--	230	16	--	0	--	--	245
Naphtha for Petro. Feed. Use	--	--	133	12	--	0	--	--	146
Other Oils for Petro. Feed. Use	--	--	96	3	--	0	--	--	99
Special Naphthas	--	--	36	10	--	0	--	--	46
Lubricants	--	--	166	47	--	-6	--	107	112
Waxes	--	--	6	6	--	0	--	5	7
Petroleum Coke	--	--	808	10	--	8	--	556	254
Marketable	--	--	607	10	--	8	--	556	53
Catalyst	--	--	201	--	--	--	--	--	201
Asphalt and Road Oil	--	--	336	53	--	23	--	15	351
Still Gas	--	--	659	--	--	--	--	--	659
Miscellaneous Products	--	--	90	0	--	1	--	2	87
Total	17,438	1,204	19,307	8,427	1,033	-515	18,287	9,378	20,258

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene."

Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	1,933	--	--	20,289	2,664	2,055	-1,260	24,634	3,567	0	7,451
Hydrocarbon Gas Liquids	19,139	-9	1,088	612	1,595	--	1,105	163	9,208	11,950	10,126
Natural Gas Liquids	19,139	-9	759	283	1,161	--	1,057	163	9,208	10,906	9,924
Ethane	7,368	--	--	--	-4,983	--	247	--	2,087	51	1,126
Propane	6,759	--	465	279	5,126	--	1,066	--	4,882	6,681	6,635
Normal Butane	2,030	--	314	--	1,656	--	-214	43	2,204	1,967	1,696
Isobutane	963	--	-20	4	-334	--	-50	119	0	544	103
Natural Gasoline	2,019	-9	--	--	-304	--	8	1	35	1,663	364
Refinery Olefins	--	--	329	329	434	--	48	--	--	1,044	202
Ethylene	--	--	13	--	--	--	--	--	--	13	--
Propylene	--	--	272	329	434	--	13	--	--	1,022	107
Normal Butylene	--	--	-2	--	--	--	0	--	--	-2	1
Isobutylene	--	--	46	--	--	--	35	--	--	11	94
Other Liquids	--	550	--	14,049	58,073	15,209	-430	88,274	180	-142	61,917
Hydrogen/Biofuels/Other Hydrocarbons	--	550	--	16	7,908	2,153	129	10,363	159	-24	7,946
Hydrogen	--	--	--	--	--	75	--	75	--	0	--
Biofuels (including Fuel Ethanol)	--	550	--	16	7,908	2,078	129	10,288	159	-24	7,946
Fuel Ethanol ⁶	--	382	--	--	7,843	2,078	177	10,022	104	0	7,273
Biofuels (excluding Fuel Ethanol) ⁷	--	169	--	16	64	--	-48	266	55	-24	673
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	888	0	--	-271	1,259	19	-119	3,484
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	13,145	50,165	13,056	-288	76,652	2	0	50,487
Reformulated	--	--	--	2,721	9,781	2,983	-1,023	16,508	--	0	14,214
Conventional	--	--	--	10,424	40,384	10,073	735	60,144	2	0	36,273
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	112,944	11,565	39,459	-15,134	-500	--	2,839	146,496	52,841
Finished Motor Gasoline	--	--	98,524	3,336	1,662	-15,134	-398	--	42	88,744	2,458
Reformulated	--	--	36,118	--	--	-4,376	-1	--	--	31,743	4
Conventional	--	--	62,406	3,336	1,662	-10,758	-397	--	42	57,001	2,454
Finished Aviation Gasoline	--	--	--	1	44	--	-45	--	--	90	180
Kerosene-Type Jet Fuel	--	--	3,009	641	14,659	--	890	--	25	17,394	10,689
Kerosene	--	--	57	--	--	--	-41	--	--	98	428
Distillate Fuel Oil ⁶	--	0	6,826	4,022	21,225	--	-202	--	1,961	30,315	26,211
15 ppm sulfur and under	--	0	6,949	4,021	20,627	--	130	--	1,711	29,756	24,458
Greater than 15 ppm to 500 ppm sulfur	--	--	-15	1	--	--	-83	--	245	-176	668
Greater than 500 ppm sulfur	--	--	-108	--	598	--	-249	--	4	735	1,085
Residual Fuel Oil	--	--	1,294	1,742	--	--	-724	--	5	3,755	4,692
Less than 0.31 percent sulfur	--	--	--	--	--	--	-41	--	NA	NA	365
0.31 to 1.00 percent sulfur	--	--	993	160	--	--	-495	--	NA	NA	921
Greater than 1.00 percent sulfur	--	--	301	1,582	--	--	-188	--	NA	NA	3,406
Petrochemical Feedstocks	--	--	--	64	--	--	--	--	--	64	--
Naphtha for Petro. Feed. Use	--	--	--	63	--	--	--	--	--	63	--
Other Oils for Petro. Feed. Use	--	--	--	1	--	--	--	--	--	1	--
Special Naphthas	--	--	20	1	--	--	10	--	--	11	41
Lubricants	--	--	412	86	541	--	192	--	215	632	1,476
Waxes	--	--	-7	117	--	--	-7	--	81	36	181
Petroleum Coke	--	--	721	--	260	--	--	--	415	566	--
Marketable	--	--	271	--	260	--	--	--	415	116	--
Catalyst	--	--	450	--	--	--	--	--	--	450	--
Asphalt and Road Oil	--	--	1,087	1,555	1,068	--	-196	--	75	3,831	6,409
Still Gas	--	--	891	--	--	--	--	--	--	891	--
Miscellaneous Products	--	--	110	--	--	--	21	--	18	71	76
Total	21,072	542	114,032	46,515	101,791	2,130	-1,086	113,071	15,793	158,303	132,336

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	13,406	--	--	120,885	18,771	9,651	-203	152,513	10,403	0	7,451
Hydrocarbon Gas Liquids	129,889	-61	4,852	9,873	15,339	--	-88	5,671	56,170	98,138	10,126
Natural Gas Liquids	129,889	-61	2,277	7,681	12,967	--	-31	5,671	56,170	90,942	9,924
Ethane	50,940	--	--	--	-34,972	--	442	--	15,230	296	1,126
Propane	45,901	--	2,811	7,250	41,737	--	-886	--	29,896	68,689	6,635
Normal Butane	14,059	--	-87	287	10,150	--	343	3,630	10,588	9,848	1,696
Isobutane	6,186	--	-447	144	-2,156	--	-33	840	5	2,915	103
Natural Gasoline	12,803	-61	--	--	-1,792	--	103	1,201	451	9,194	364
Refinery Olefins	--	--	2,575	2,192	2,372	--	-57	--	--	7,196	202
Ethylene	--	--	104	--	--	--	--	--	--	104	--
Propylene	--	--	2,160	2,192	2,372	--	-39	--	--	6,763	107
Normal Butylene	--	--	0	--	--	--	-83	--	--	83	1
Isobutylene	--	--	311	--	--	--	65	--	--	246	94
Other Liquids	--	3,308	--	106,004	418,488	62,596	-7,630	593,821	1,931	2,272	61,917
Hydrogen/Biofuels/Other Hydrocarbons	--	3,308	--	1,271	60,588	8,756	878	70,716	1,317	1,011	7,946
Hydrogen	--	--	--	--	--	710	--	710	--	0	--
Biofuels (including Fuel Ethanol)	--	3,308	--	1,271	60,588	8,046	878	70,006	1,317	1,011	7,946
Fuel Ethanol ⁶	--	2,423	--	--	59,363	8,046	1,246	67,558	1,028	0	7,273
Biofuels (excluding Fuel Ethanol) ⁷	--	885	--	1,271	1,225	--	-368	2,448	289	1,011	673
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	8,805	11	--	-88	7,156	486	1,262	3,484
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	95,928	357,889	53,840	-8,420	515,949	128	0	50,487
Reformulated	--	--	--	32,484	57,998	6,017	-5,169	101,660	8	0	14,214
Conventional	--	--	--	63,444	299,891	47,823	-3,251	414,289	120	0	36,273
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	754,492	77,083	295,462	-61,886	-17,636	--	15,963	1,066,828	52,841
Finished Motor Gasoline	--	--	662,821	15,785	17,876	-61,886	-458	--	321	634,734	2,458
Reformulated	--	--	243,714	--	--	-10,111	-2	--	--	233,605	4
Conventional	--	--	419,107	15,785	17,876	-51,775	-456	--	321	401,129	2,454
Finished Aviation Gasoline	--	--	-8	92	514	--	-67	--	--	665	180
Kerosene-Type Jet Fuel	--	--	18,525	6,091	96,025	--	1,532	--	162	118,947	10,689
Kerosene	--	--	50	--	172	--	-1,330	--	17	1,535	428
Distillate Fuel Oil ⁶	--	4	44,135	34,213	167,340	--	-18,371	--	6,531	257,532	26,211
15 ppm sulfur and under	--	4	45,217	34,100	161,553	--	-16,684	--	5,108	252,450	24,458
Greater than 15 ppm to 500 ppm sulfur	--	--	3	51	67	--	-367	--	1,055	-567	668
Greater than 500 ppm sulfur	--	--	-1,085	62	5,720	--	-1,320	--	367	5,650	1,085
Residual Fuel Oil	--	--	9,134	12,187	172	--	151	--	1,552	19,790	4,692
Less than 0.31 percent sulfur	--	--	-68	--	--	--	58	--	NA	NA	365
0.31 to 1.00 percent sulfur	--	--	6,795	3,226	--	--	-372	--	NA	NA	921
Greater than 1.00 percent sulfur	--	--	2,407	8,961	172	--	465	--	NA	NA	3,406
Petrochemical Feedstocks	--	--	--	412	--	--	--	--	--	412	--
Naphtha for Petro. Feed. Use	--	--	--	405	--	--	--	--	--	405	--
Other Oils for Petro. Feed. Use	--	--	--	7	--	--	--	--	--	7	--
Special Naphthas	--	--	74	112	25	--	13	--	--	198	41
Lubricants	--	--	2,586	879	3,874	--	-19	--	1,801	5,557	1,476
Waxes	--	--	-57	672	--	--	-54	--	576	93	181
Petroleum Coke	--	--	4,670	10	2,136	--	--	--	4,344	2,471	--
Marketable	--	--	1,732	10	2,136	--	--	--	4,344	-467	--
Catalyst	--	--	2,938	--	--	--	--	--	--	2,938	--
Asphalt and Road Oil	--	--	6,101	6,630	7,328	--	958	--	530	18,571	6,409
Still Gas	--	--	5,833	--	--	--	--	--	--	5,833	--
Miscellaneous Products	--	--	628	--	--	--	9	--	130	489	76
Total	143,295	3,250	759,344	313,845	748,059	10,361	-25,556	752,005	84,468	1,167,238	132,336

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	62	--	--	654	86	66	-41	795	115	0
Hydrocarbon Gas Liquids	617	0	35	20	51	--	36	5	297	385
Natural Gas Liquids	617	0	24	9	37	--	34	5	297	352
Ethane	238	--	--	--	-161	--	8	--	67	2
Propane	218	--	15	9	165	--	34	--	157	216
Normal Butane	65	--	10	--	53	--	-7	1	71	63
Isobutane	31	--	-1	0	-11	--	-2	4	0	18
Natural Gasoline	65	0	--	--	-10	--	0	0	1	54
Refinery Olefins	--	--	11	11	14	--	2	--	--	34
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	9	11	14	--	0	--	--	33
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	1	--	--	--	1	--	--	0
Other Liquids	--	18	--	453	1,873	491	-14	2,848	6	-5
Hydrogen/Biofuels/Other Hydrocarbons	--	18	--	1	255	69	4	334	5	-1
Hydrogen	--	--	--	--	--	2	--	2	--	0
Biofuels (including Fuel Ethanol)	--	18	--	1	255	67	4	332	5	-1
Fuel Ethanol ⁶	--	12	--	--	253	67	6	323	3	0
Biofuels (excluding Fuel Ethanol) ⁷	--	5	--	1	2	--	-2	9	2	-1
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	29	0	--	-9	41	1	-4
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	--	--	424	1,618	421	-9	2,473	0	0
Reformulated	--	--	--	88	316	96	-33	533	--	0
Conventional	--	--	--	336	1,303	325	24	1,940	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,643	373	1,273	-488	-16	--	92	4,726
Finished Motor Gasoline	--	--	3,178	108	54	-488	-13	--	1	2,863
Reformulated	--	--	1,165	--	--	-141	0	--	--	1,024
Conventional	--	--	2,013	108	54	-347	-13	--	1	1,839
Finished Aviation Gasoline	--	--	--	0	1	--	-1	--	--	3
Kerosene-Type Jet Fuel	--	--	97	21	473	--	29	--	1	561
Kerosene	--	--	2	--	--	--	-1	--	--	3
Distillate Fuel Oil ⁶	--	0	220	130	685	--	-7	--	63	978
15 ppm sulfur and under	--	0	224	130	665	--	4	--	55	960
Greater than 15 ppm to 500 ppm sulfur	--	--	0	0	--	--	-3	--	8	-6
Greater than 500 ppm sulfur	--	--	-3	--	19	--	-8	--	0	24
Residual Fuel Oil	--	--	42	56	--	--	-23	--	0	121
Less than 0.31 percent sulfur	--	--	--	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	32	5	--	--	-16	--	NA	NA
Greater than 1.00 percent sulfur	--	--	10	51	--	--	-6	--	NA	NA
Petrochemical Feedstocks	--	--	--	2	--	--	--	--	--	2
Naphtha for Petro. Feed. Use	--	--	--	2	--	--	--	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	0
Lubricants	--	--	13	3	17	--	6	--	7	20
Waxes	--	--	0	4	--	--	0	--	3	1
Petroleum Coke	--	--	23	--	8	--	--	--	13	18
Marketable	--	--	9	--	8	--	--	--	13	4
Catalyst	--	--	15	--	--	--	--	--	--	15
Asphalt and Road Oil	--	--	35	50	34	--	-6	--	2	124
Still Gas	--	--	29	--	--	--	--	--	--	29
Miscellaneous Products	--	--	4	--	--	--	1	--	1	2
Total	680	17	3,678	1,500	3,284	69	-35	3,647	509	5,107

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	63	--	--	570	89	46	-1	719	49	0
Hydrocarbon Gas Liquids	613	0	23	47	72	--	0	27	265	463
Natural Gas Liquids	613	0	11	36	61	--	0	27	265	429
Ethane	240	--	--	--	-165	--	2	--	72	1
Propane	217	--	13	34	197	--	-4	--	141	324
Normal Butane	66	--	0	1	48	--	2	17	50	46
Isobutane	29	--	-2	1	-10	--	0	4	0	14
Natural Gasoline	60	0	--	--	-8	--	0	6	2	43
Refinery Olefins	--	--	12	10	11	--	0	--	--	34
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	10	10	11	--	0	--	--	32
Normal Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	16	--	500	1,974	295	-36	2,801	9	11
Hydrogen/Biofuels/Other Hydrocarbons	--	16	--	6	286	41	4	334	6	5
Hydrogen	--	--	--	--	--	3	--	3	--	0
Biofuels (including Fuel Ethanol)	--	16	--	6	286	38	4	330	6	5
Fuel Ethanol ⁶	--	11	--	--	280	38	6	319	5	0
Biofuels (excluding Fuel Ethanol) ⁷	--	4	--	6	6	--	-2	12	1	5
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	42	0	--	0	34	2	6
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	--	--	452	1,688	254	-40	2,434	1	0
Reformulated	--	--	--	153	274	28	-24	480	0	0
Conventional	--	--	--	299	1,415	226	-15	1,954	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	3,559	364	1,394	-292	-83	--	75	5,032
Finished Motor Gasoline	--	--	3,127	74	84	-292	-2	--	2	2,994
Reformulated	--	--	1,150	--	--	-48	0	--	--	1,102
Conventional	--	--	1,977	74	84	-244	-2	--	2	1,892
Finished Aviation Gasoline	--	--	0	0	2	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	87	29	453	--	7	--	1	561
Kerosene	--	--	0	--	1	--	-6	--	0	7
Distillate Fuel Oil ⁶	--	0	208	161	789	--	-87	--	31	1,215
15 ppm sulfur and under	--	0	213	161	762	--	-79	--	24	1,191
Greater than 15 ppm to 500 ppm sulfur	--	--	0	0	0	--	-2	--	5	-3
Greater than 500 ppm sulfur	--	--	-5	0	27	--	-6	--	2	27
Residual Fuel Oil	--	--	43	57	1	--	1	--	7	93
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	32	15	--	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	11	42	1	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	--	2	--	--	--	--	--	2
Naphtha for Petro. Feed. Use	--	--	--	2	--	--	--	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	0	1	0	--	0	--	--	1
Lubricants	--	--	12	4	18	--	0	--	8	26
Waxes	--	--	0	3	--	--	0	--	3	0
Petroleum Coke	--	--	22	0	10	--	--	--	20	12
Marketable	--	--	8	0	10	--	--	--	20	-2
Catalyst	--	--	14	--	--	--	--	--	--	14
Asphalt and Road Oil	--	--	29	31	35	--	5	--	3	88
Still Gas	--	--	28	--	--	--	--	--	--	28
Miscellaneous Products	--	--	3	--	--	--	0	--	1	2
Total	676	15	3,582	1,480	3,529	49	-121	3,547	398	5,506

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	50,340	--	--	83,006	-6,146	-2,638	5,388	117,910	1,264	0	109,099
Hydrocarbon Gas Liquids	35,853	-655	5,880	2,188	-18,585	--	5,974	2,689	7,453	8,565	52,318
Natural Gas Liquids	35,853	-655	4,436	1,986	-17,568	--	5,987	2,689	7,453	7,923	51,834
Ethane	13,387	--	--	--	-8,238	--	43	--	1,381	3,725	6,484
Propane	11,934	--	2,322	1,183	-9,994	--	3,136	--	147	2,162	19,347
Normal Butane	4,086	--	2,389	622	-4,565	--	2,786	15	294	-563	14,232
Isobutane	2,083	--	-275	175	243	--	68	1,752	4	402	2,043
Natural Gasoline	4,363	-655	--	6	4,986	--	-46	922	5,627	2,197	9,728
Refinery Olefins	--	--	1,444	202	-1,017	--	-13	--	--	642	484
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,331	100	-1,017	--	-13	--	--	427	345
Normal Butylene	--	--	113	102	--	--	0	--	--	215	139
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	32,747	--	607	-8,392	-1,007	2,970	18,064	3,982	-1,061	69,675
Hydrogen/Biofuels/Other Hydrocarbons	--	32,747	--	97	-17,524	-2,105	980	9,308	1,180	1,747	10,972
Hydrogen	--	--	--	--	--	1,168	--	1,168	--	0	--
Biofuels (including Fuel Ethanol)	--	32,747	--	97	-17,524	-3,283	983	8,127	1,180	1,747	10,960
Fuel Ethanol	--	29,700	--	--	-17,043	-3,283	951	7,613	810	0	9,888
Biofuels (excluding Fuel Ethanol) ⁶	--	3,048	--	97	-481	--	32	514	371	1,747	1,071
Other Hydrocarbons	--	--	--	--	--	10	-3	13	--	0	12
Unfinished Oils	--	--	--	28	-586	--	-118	-120	2,488	-2,808	14,305
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	482	9,718	1,098	2,108	8,876	314	0	44,399
Reformulated	--	0	--	--	3,672	-1,854	-175	1,993	--	0	5,495
Conventional	--	--	--	482	6,046	2,952	2,283	6,883	314	0	38,904
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	157	139,290	1,389	3,882	2,185	461	--	1,530	144,912	57,134
Finished Motor Gasoline	--	160	77,670	--	2,628	2,185	-70	--	512	82,201	4,367
Reformulated	--	--	10,092	--	--	2,207	--	--	--	12,299	--
Conventional	--	160	67,578	--	2,628	-22	-70	--	512	69,901	4,367
Finished Aviation Gasoline	--	--	22	7	--	--	-1	--	--	30	161
Kerosene-Type Jet Fuel	--	--	8,828	--	645	--	283	--	23	9,167	7,660
Kerosene	--	--	76	--	--	--	20	--	--	56	114
Distillate Fuel Oil	--	-3	34,735	371	3,460	--	1,589	--	103	36,871	27,041
15 ppm sulfur and under	--	-3	34,632	337	3,343	--	1,615	--	0	36,694	26,510
Greater than 15 ppm to 500 ppm sulfur	--	0	45	--	117	--	-114	--	16	260	194
Greater than 500 ppm sulfur	--	--	58	34	--	--	88	--	87	-83	337
Residual Fuel Oil	--	--	1,066	134	-687	--	-78	--	1	590	1,125
Less than 0.31 percent sulfur	--	--	95	--	-94	--	43	--	NA	NA	160
0.31 to 1.00 percent sulfur	--	--	445	5	-365	--	-10	--	NA	NA	239
Greater than 1.00 percent sulfur	--	--	526	129	-228	--	-111	--	NA	NA	726
Petrochemical Feedstocks	--	--	786	164	-117	--	-29	--	--	862	527
Naphtha for Petro. Feed. Use	--	--	446	95	-94	--	-28	--	--	475	419
Other Oils for Petro. Feed. Use	--	--	340	69	-23	--	-1	--	--	387	108
Special Naphthas	--	--	-12	8	-26	--	24	--	--	-54	157
Lubricants	--	--	259	194	181	--	67	--	203	364	669
Waxes	--	--	52	15	--	--	15	--	42	10	57
Petroleum Coke	--	--	5,617	19	-1,397	--	-438	--	565	4,112	2,797
Marketable	--	--	4,100	19	-1,397	--	-438	--	565	2,595	2,797
Catalyst	--	--	1,517	--	--	--	--	--	--	1,517	--
Asphalt and Road Oil	--	--	5,360	477	-817	--	-943	--	80	5,883	12,322
Still Gas	--	--	4,345	--	--	--	--	--	--	4,345	--
Miscellaneous Products	--	--	486	--	12	--	22	--	1	475	137
Total	86,193	32,249	145,170	87,190	-29,240	-1,460	14,792	138,663	14,230	152,416	288,227

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

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² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	348,191	--	--	602,423	-118,437	-11,609	-8,540	815,253	13,855	0	109,099
Hydrocarbon Gas Liquids	235,377	-4,394	29,499	14,846	-105,918	--	2,407	20,252	50,708	96,042	52,318
Natural Gas Liquids	235,377	-4,394	20,024	13,573	-99,789	--	2,483	20,252	50,708	91,347	51,834
Ethane	91,139	--	--	--	-47,511	--	-449	--	14,104	29,973	6,484
Propane	78,609	--	16,358	9,237	-67,150	--	-2,091	--	997	38,148	19,347
Normal Butane	26,384	--	5,344	2,888	-25,489	--	5,379	2,945	774	29	14,232
Isobutane	13,339	--	-1,678	1,413	4,703	--	-309	11,947	18	6,121	2,043
Natural Gasoline	25,906	-4,394	--	35	35,658	--	-47	5,360	34,816	17,075	9,728
Refinery Olefins	--	--	9,475	1,273	-6,129	--	-76	--	--	4,695	484
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9,099	804	-6,129	--	-108	--	--	3,882	345
Normal Butylene	--	--	376	469	--	--	32	--	--	813	139
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	222,278	--	3,699	-96,951	-19,827	-691	91,597	22,442	-4,148	69,675
Hydrogen/Biofuels/Other Hydrocarbons	--	222,280	--	474	-130,683	-13,248	352	61,689	6,312	10,469	10,972
Hydrogen	--	--	--	--	--	8,162	--	8,162	--	0	--
Biofuels (including Fuel Ethanol)	--	222,280	--	474	-130,683	-21,496	356	53,437	6,312	10,469	10,960
Fuel Ethanol	--	203,194	--	--	-125,558	-21,496	518	50,681	4,942	0	9,888
Biofuels (excluding Fuel Ethanol) ⁶	--	19,086	--	474	-5,126	--	-162	2,756	1,371	10,469	1,071
Other Hydrocarbons	--	--	--	--	--	86	-4	90	--	0	12
Unfinished Oils	--	--	--	73	-3,592	--	1,035	-4,864	14,927	-14,617	14,305
Motor Gasoline Blend.Comp. (MGBC)	--	-2	--	3,152	37,324	-6,578	-2,078	34,772	1,202	0	44,399
Reformulated	--	-2	--	--	9,560	3,568	845	12,282	--	0	5,495
Conventional	--	--	--	3,152	27,764	-10,147	-2,923	22,490	1,202	0	38,904
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	842	944,475	9,338	2,892	28,075	2,685	--	8,693	974,244	57,134
Finished Motor Gasoline	--	862	517,853	--	3,437	28,075	-35	--	2,811	547,450	4,367
Reformulated	--	--	69,451	--	--	-2,455	--	--	--	66,996	--
Conventional	--	862	448,402	--	3,437	30,530	-35	--	2,811	480,454	4,367
Finished Aviation Gasoline	--	--	108	31	75	--	-11	--	--	225	161
Kerosene-Type Jet Fuel	--	--	55,604	34	6,239	--	839	--	134	60,904	7,660
Kerosene	--	0	769	--	26	--	-23	--	4	814	114
Distillate Fuel Oil	--	-19	245,465	1,994	12,416	--	-2,131	--	1,061	260,926	27,041
15 ppm sulfur and under	--	-19	245,393	1,834	11,365	--	-2,071	--	4	260,640	26,510
Greater than 15 ppm to 500 ppm sulfur	--	0	778	37	1,002	--	-42	--	295	1,564	194
Greater than 500 ppm sulfur	--	0	-706	123	49	--	-18	--	762	-1,278	337
Residual Fuel Oil	--	--	7,775	874	-5,543	--	168	--	1	2,937	1,125
Less than 0.31 percent sulfur	--	--	577	--	-268	--	109	--	NA	NA	160
0.31 to 1.00 percent sulfur	--	--	3,091	79	-2,812	--	43	--	NA	NA	239
Greater than 1.00 percent sulfur	--	--	4,107	795	-2,463	--	16	--	NA	NA	726
Petrochemical Feedstocks	--	--	6,193	1,087	-491	--	-5	--	--	6,794	527
Naphtha for Petro. Feed. Use	--	--	3,512	624	-436	--	7	--	--	3,693	419
Other Oils for Petro. Feed. Use	--	--	2,681	463	-55	--	-12	--	--	3,101	108
Special Naphthas	--	--	-220	50	144	--	5	--	--	-31	157
Lubricants	--	--	1,435	1,508	1,355	--	-52	--	1,384	2,966	669
Waxes	--	--	265	102	--	--	17	--	254	96	57
Petroleum Coke	--	--	39,856	146	-7,446	--	1,295	--	2,604	28,657	2,797
Marketable	--	--	29,703	146	-7,446	--	1,295	--	2,604	18,504	2,797
Catalyst	--	--	10,153	--	--	--	--	--	--	10,153	--
Asphalt and Road Oil	--	--	35,958	3,512	-7,375	--	2,605	--	429	29,061	12,322
Still Gas	--	--	29,998	--	--	--	--	--	--	29,998	--
Miscellaneous Products	--	--	3,416	--	55	--	13	--	10	3,448	137
Total	583,568	218,726	973,974	630,306	-318,415	-3,361	-4,139	927,102	95,699	1,066,137	288,227

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,624	--	--	2,678	-198	-85	174	3,804	41	0
Hydrocarbon Gas Liquids	1,157	-21	190	71	-600	--	193	87	240	276
Natural Gas Liquids	1,157	-21	143	64	-567	--	193	87	240	256
Ethane	432	--	--	--	-266	--	1	--	45	120
Propane	385	--	75	38	-322	--	101	--	5	70
Normal Butane	132	--	77	20	-147	--	90	0	9	-18
Isobutane	67	--	-9	6	8	--	2	57	0	13
Natural Gasoline	141	-21	--	0	161	--	-1	30	182	71
Refinery Olefins	--	--	47	7	-33	--	0	--	--	21
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	3	-33	--	0	--	--	14
Normal Butylene	--	--	4	3	--	--	0	--	--	7
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,056	--	20	-271	-32	96	583	128	-34
Hydrogen/Biofuels/Other Hydrocarbons	--	1,056	--	3	-565	-68	32	300	38	56
Hydrogen	--	--	--	--	--	38	--	38	--	0
Biofuels (including Fuel Ethanol)	--	1,056	--	3	-565	-106	32	262	38	56
Fuel Ethanol	--	958	--	--	-550	-106	31	246	26	0
Biofuels (excluding Fuel Ethanol) ⁶	--	98	--	3	-16	--	1	17	12	56
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	1	-19	--	-4	-4	80	-91
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	16	313	35	68	286	10	0
Reformulated	--	0	--	--	118	-60	-6	64	--	0
Conventional	--	--	--	16	195	95	74	222	10	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,493	45	125	70	15	--	49	4,675
Finished Motor Gasoline	--	5	2,505	--	85	70	-2	--	17	2,652
Reformulated	--	--	326	--	--	71	--	--	--	397
Conventional	--	5	2,180	--	85	-1	-2	--	17	2,255
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	285	--	21	--	9	--	1	296
Kerosene	--	--	2	--	--	--	1	--	--	2
Distillate Fuel Oil	--	0	1,120	12	112	--	51	--	3	1,189
15 ppm sulfur and under	--	0	1,117	11	108	--	52	--	0	1,184
Greater than 15 ppm to 500 ppm sulfur	--	0	1	--	4	--	-4	--	1	8
Greater than 500 ppm sulfur	--	--	2	1	--	--	3	--	3	-3
Residual Fuel Oil	--	--	34	4	-22	--	-3	--	0	19
Less than 0.31 percent sulfur	--	--	3	--	-3	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	14	0	-12	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	17	4	-7	--	-4	--	NA	NA
Petrochemical Feedstocks	--	--	25	5	-4	--	-1	--	--	28
Naphtha for Petro. Feed. Use	--	--	14	3	-3	--	-1	--	--	15
Other Oils for Petro. Feed. Use	--	--	11	2	-1	--	0	--	--	12
Special Naphthas	--	--	0	0	-1	--	1	--	--	-2
Lubricants	--	--	8	6	6	--	2	--	7	12
Waxes	--	--	2	0	--	--	0	--	1	0
Petroleum Coke	--	--	181	1	-45	--	-14	--	18	133
Marketable	--	--	132	1	-45	--	-14	--	18	84
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	173	15	-26	--	-30	--	3	190
Still Gas	--	--	140	--	--	--	--	--	--	140
Miscellaneous Products	--	--	16	--	0	--	1	--	0	15
Total	2,780	1,040	4,683	2,813	-943	-47	477	4,473	459	4,917

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,642	--	--	2,842	-559	-55	-40	3,846	65	0
Hydrocarbon Gas Liquids	1,110	-21	139	70	-500	--	11	96	239	453
Natural Gas Liquids	1,110	-21	94	64	-471	--	12	96	239	431
Ethane	430	--	--	--	-224	--	-2	--	67	141
Propane	371	--	77	44	-317	--	-10	--	5	180
Normal Butane	124	--	25	14	-120	--	25	14	4	0
Isobutane	63	--	-8	7	22	--	-1	56	0	29
Natural Gasoline	122	-21	--	0	168	--	0	25	164	81
Refinery Olefins	--	--	45	6	-29	--	0	--	--	22
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	4	-29	--	-1	--	--	18
Normal Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,048	--	17	-457	-94	-3	432	106	-20
Hydrogen/Biofuels/Other Hydrocarbons	--	1,048	--	2	-616	-62	2	291	30	49
Hydrogen	--	--	--	--	--	39	--	39	--	0
Biofuels (including Fuel Ethanol)	--	1,048	--	2	-616	-101	2	252	30	49
Fuel Ethanol	--	958	--	--	-592	-101	2	239	23	0
Biofuels (excluding Fuel Ethanol) ⁶	--	90	--	2	-24	--	-1	13	6	49
Other Hydrocarbons	--	--	--	--	--	0	0	0	--	0
Unfinished Oils	--	--	--	0	-17	--	5	-23	70	-69
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	15	176	-31	-10	164	6	0
Reformulated	--	0	--	--	45	17	4	58	--	0
Conventional	--	--	--	15	131	-48	-14	106	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,455	44	14	132	13	--	41	4,595
Finished Motor Gasoline	--	4	2,443	--	16	132	0	--	13	2,582
Reformulated	--	--	328	--	--	-12	--	--	--	316
Conventional	--	4	2,115	--	16	144	0	--	13	2,266
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	262	0	29	--	4	--	1	287
Kerosene	--	0	4	--	0	--	0	--	0	4
Distillate Fuel Oil	--	0	1,158	9	59	--	-10	--	5	1,231
15 ppm sulfur and under	--	0	1,158	9	54	--	-10	--	0	1,229
Greater than 15 ppm to 500 ppm sulfur	--	0	4	0	5	--	0	--	1	7
Greater than 500 ppm sulfur	--	0	-3	1	0	--	0	--	4	-6
Residual Fuel Oil	--	--	37	4	-26	--	1	--	0	14
Less than 0.31 percent sulfur	--	--	3	--	-1	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	0	-13	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	4	-12	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	29	5	-2	--	0	--	--	32
Naphtha for Petro. Feed. Use	--	--	17	3	-2	--	0	--	--	17
Other Oils for Petro. Feed. Use	--	--	13	2	0	--	0	--	--	15
Special Naphthas	--	--	-1	0	1	--	0	--	--	0
Lubricants	--	--	7	7	6	--	0	--	7	14
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	188	1	-35	--	6	--	12	135
Marketable	--	--	140	1	-35	--	6	--	12	87
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	170	17	-35	--	12	--	2	137
Still Gas	--	--	142	--	--	--	--	--	--	142
Miscellaneous Products	--	--	16	--	0	--	0	--	0	16
Total	2,753	1,032	4,594	2,973	-1,502	-16	-20	4,373	451	5,029

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	263,307	--	--	50,679	22,693	29,556	-26,079	279,480	112,834	0	701,909
Hydrocarbon Gas Liquids	115,655	-15	16,295	--	32,506	--	13,774	10,598	50,108	89,961	134,687
Natural Gas Liquids	115,655	-15	9,541	--	31,923	--	13,541	10,598	50,108	82,857	133,453
Ethane	50,623	--	255	--	19,454	--	-2,572	--	8,707	64,197	38,496
Propane	34,118	--	4,962	--	9,543	--	5,211	--	33,893	9,519	34,422
Normal Butane	8,085	--	4,567	--	4,673	--	8,190	1,012	7,348	775	39,577
Isobutane	9,945	--	-243	--	931	--	630	4,535	111	5,357	7,037
Natural Gasoline	12,884	-15	--	--	-2,678	--	2,082	5,051	49	3,009	13,921
Refinery Olefins	--	--	6,754	--	583	--	233	--	--	7,104	1,234
Ethylene	--	--	12	--	--	--	0	--	--	12	0
Propylene	--	--	6,795	--	583	--	1	--	--	7,377	766
Normal Butylene	--	--	-13	--	--	--	229	--	--	-242	454
Isobutylene	--	--	-40	--	--	--	3	--	--	-43	14
Other Liquids	--	3,347	--	18,073	-60,884	-1,057	3,441	-58,363	7,905	6,496	134,309
Hydrogen/Biofuels/Other Hydrocarbons	--	3,347	--	16	3,931	4,944	-141	8,923	1,473	1,983	5,787
Hydrogen	--	--	--	--	--	4,085	--	4,085	--	0	--
Biofuels (including Fuel Ethanol)	--	3,347	--	--	3,931	875	-141	4,838	1,473	1,983	5,787
Fuel Ethanol	--	731	--	--	4,172	875	-184	4,535	1,427	0	4,180
Biofuels (excluding Fuel Ethanol) ⁷	--	2,615	--	--	-241	--	42	303	46	1,983	1,606
Other Hydrocarbons	--	--	--	16	--	-16	--	--	--	0	--
Unfinished Oils	--	--	--	15,815	310	--	299	6,376	4,927	4,523	48,055
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2,242	-65,125	-6,001	3,274	-73,663	1,505	0	80,421
Reformulated	--	--	--	--	-15,322	3,106	520	-12,739	3	0	13,420
Conventional	--	--	--	2,242	-49,803	-9,107	2,754	-60,924	1,502	0	67,001
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	9	1	--	-10	46
Finished Petroleum Products	--	7	235,628	5,470	-45,245	5,126	2,727	--	88,188	110,071	102,343
Finished Motor Gasoline	--	0	65,336	--	-4,080	5,126	122	--	23,260	43,000	6,865
Reformulated	--	--	14,016	--	--	-2,548	--	--	--	11,468	--
Conventional	--	0	51,320	--	-4,080	7,674	122	--	23,260	31,532	6,865
Finished Aviation Gasoline	--	--	284	--	-44	--	64	--	--	176	590
Kerosene-Type Jet Fuel	--	--	27,805	--	-16,237	--	692	--	5,440	5,436	12,420
Kerosene	--	--	154	--	--	--	171	--	--	-17	533
Distillate Fuel Oil	--	7	95,884	25	-25,904	--	-568	--	43,395	27,185	42,158
15 ppm sulfur and under	--	7	88,878	--	-25,189	--	52	--	37,820	25,824	35,876
Greater than 15 ppm to 500 ppm sulfur	--	0	2,922	25	-117	--	-22	--	2,613	239	1,386
Greater than 500 ppm sulfur	--	--	4,084	--	-598	--	-598	--	2,962	1,122	4,896
Residual Fuel Oil	--	--	2,350	2,766	687	--	999	--	1,617	3,187	17,864
Less than 0.31 percent sulfur	--	--	1,050	--	94	--	-171	--	NA	NA	761
0.31 to 1.00 percent sulfur	--	--	1,346	313	365	--	158	--	NA	NA	5,179
Greater than 1.00 percent sulfur	--	--	-46	2,453	228	--	1,012	--	NA	NA	11,924
Petrochemical Feedstocks	--	--	6,840	366	117	--	109	--	--	7,214	2,095
Naphtha for Petro. Feed. Use	--	--	3,512	303	94	--	65	--	--	3,844	1,456
Other Oils for Petro. Feed. Use	--	--	3,328	63	23	--	44	--	--	3,370	639
Special Naphthas	--	--	1,008	444	26	--	-103	--	--	1,581	850
Lubricants	--	--	4,313	1,370	-722	--	728	--	3,135	1,098	8,562
Waxes	--	--	141	70	--	--	5	--	16	190	269
Petroleum Coke	--	--	14,808	429	1,208	--	438	--	11,137	4,870	3,983
Marketable	--	--	11,485	429	1,208	--	438	--	11,137	1,547	3,983
Catalyst	--	--	3,323	--	--	--	--	--	--	3,323	--
Asphalt and Road Oil	--	--	2,806	--	-284	--	79	--	130	2,314	5,591
Still Gas	--	--	12,133	--	--	--	--	--	--	12,133	--
Miscellaneous Products	--	--	1,766	--	-12	--	-9	--	58	1,705	563
Total	378,962	3,338	251,923	74,222	-50,930	33,625	-6,137	231,715	259,035	206,528	1,073,248

-- = Not Applicable.

NA = No Data Reported.

1 = Not Available.

2 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

3 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

4 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

5 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

6 Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

7 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

8 Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	1,754,797	--	--	286,800	216,744	162,837	-116,826	1,835,810	702,194	0	701,909
Hydrocarbon Gas Liquids	738,729	-98	97,811	42	191,274	--	12,082	74,490	385,373	555,814	134,687
Natural Gas Liquids	738,729	-98	52,857	17	187,517	--	11,991	74,490	385,373	507,169	133,453
Ethane	327,597	--	1,396	--	122,057	--	-15,771	--	64,860	401,961	38,496
Propane	220,984	--	32,994	16	57,062	--	4,288	--	254,930	51,838	34,422
Normal Butane	50,633	--	19,681	--	25,840	--	18,834	17,289	63,515	-3,484	39,577
Isobutane	64,813	--	-1,214	--	3,627	--	623	28,743	1,048	36,812	7,037
Natural Gasoline	74,702	-98	--	1	-21,069	--	4,017	28,458	1,019	20,043	13,921
Refinery Olefins	--	--	44,954	25	3,757	--	91	--	--	48,645	1,234
Ethylene	--	--	63	--	--	--	0	--	--	63	--
Propylene	--	--	46,482	--	3,757	--	-13	--	--	50,252	766
Normal Butylene	--	--	-1,397	25	--	--	106	--	--	-1,478	454
Isobutylene	--	--	-194	--	--	--	-2	--	--	-192	14
Other Liquids	--	21,125	--	102,450	-393,307	8,491	12,062	-391,971	81,409	37,258	134,309
Hydrogen/Biofuels/Other Hydrocarbons	--	21,125	--	493	34,116	32,762	241	60,747	15,318	12,189	5,787
Hydrogen	--	--	--	--	--	26,943	--	26,943	--	0	--
Biofuels (including Fuel Ethanol)	--	21,125	--	428	34,116	5,884	241	33,804	15,318	12,189	5,787
Fuel Ethanol	--	4,900	--	--	35,287	5,884	304	31,072	14,694	0	4,180
Biofuels (excluding Fuel Ethanol) ⁷	--	16,225	--	428	-1,171	--	-63	2,732	624	12,189	1,606
Other Hydrocarbons	--	--	--	65	--	-65	--	--	--	0	--
Unfinished Oils	--	--	--	90,907	3,305	--	6,349	8,564	54,441	24,858	48,055
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	11,050	-430,728	-24,271	5,451	-461,050	11,650	0	80,421
Reformulated	--	--	--	--	-80,500	22,474	3,927	-61,959	6	0	13,420
Conventional	--	--	--	11,050	-350,228	-46,745	1,524	-399,091	11,644	0	67,001
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	21	-232	--	211	46
Finished Petroleum Products	--	41	1,541,163	46,128	-312,365	18,387	7,238	--	568,751	717,366	102,343
Finished Motor Gasoline	--	0	455,739	179	-19,659	18,387	96	--	167,710	286,840	6,865
Reformulated	--	--	95,291	--	--	-20,524	--	--	--	74,767	--
Conventional	--	0	360,448	179	-19,659	38,911	96	--	167,710	212,073	6,865
Finished Aviation Gasoline	--	--	1,824	80	-589	--	83	--	--	1,232	590
Kerosene-Type Jet Fuel	--	--	178,183	--	-108,574	--	1,358	--	32,627	35,624	12,420
Kerosene	--	--	188	--	-198	--	219	--	1,322	-1,551	533
Distillate Fuel Oil	--	41	611,590	271	-189,937	--	2,923	--	240,344	178,698	42,158
15 ppm sulfur and under	--	41	571,415	136	-183,099	--	1,327	--	205,677	181,489	35,876
Greater than 15 ppm to 500 ppm sulfur	--	0	17,066	25	-1,069	--	302	--	17,241	-1,521	1,386
Greater than 500 ppm sulfur	--	--	23,109	110	-5,769	--	1,294	--	17,426	-1,270	4,896
Residual Fuel Oil	--	--	14,191	32,531	5,371	--	2,535	--	17,178	32,380	17,864
Less than 0.31 percent sulfur	--	--	6,210	880	268	--	-310	--	NA	NA	761
0.31 to 1.00 percent sulfur	--	--	8,366	2,021	2,812	--	795	--	NA	NA	5,179
Greater than 1.00 percent sulfur	--	--	-385	29,630	2,291	--	2,050	--	NA	NA	11,924
Petrochemical Feedstocks	--	--	42,481	1,600	491	--	89	--	--	44,483	2,095
Naphtha for Petro. Feed. Use	--	--	24,783	1,353	436	--	-12	--	--	26,584	1,456
Other Oils for Petro. Feed. Use	--	--	17,698	247	55	--	101	--	--	17,899	639
Special Naphthas	--	--	7,524	1,903	-169	--	0	--	--	9,258	850
Lubricants	--	--	28,583	7,253	-5,017	--	-1,107	--	17,444	14,482	8,562
Waxes	--	--	995	255	--	--	-5	--	160	1,095	269
Petroleum Coke	--	--	95,919	1,997	6,529	--	137	--	89,689	14,619	3,983
Marketable	--	--	74,111	1,997	6,529	--	137	--	89,689	-7,189	3,983
Catalyst	--	--	21,808	--	--	--	--	--	--	21,808	--
Asphalt and Road Oil	--	--	17,101	59	-558	--	673	--	2,032	13,897	5,591
Still Gas	--	--	75,355	--	--	--	--	--	--	75,355	--
Miscellaneous Products	--	--	11,490	--	-55	--	237	--	244	10,954	563
Total	2,493,526	21,068	1,638,974	435,420	-297,654	189,715	-85,445	1,518,329	1,737,726	1,310,438	1,073,248

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,494	--	--	1,635	732	953	-841	9,015	3,640	0
Hydrocarbon Gas Liquids	3,731	0	526	--	1,049	--	444	342	1,616	2,902
Natural Gas Liquids	3,731	0	308	--	1,030	--	437	342	1,616	2,673
Ethane	1,633	--	8	--	628	--	-83	--	281	2,071
Propane	1,101	--	160	--	308	--	168	--	1,093	307
Normal Butane	261	--	147	--	151	--	264	33	237	25
Isobutane	321	--	-8	--	30	--	20	146	4	173
Natural Gasoline	416	0	--	--	-86	--	67	163	2	97
Refinery Olefins	--	--	218	--	19	--	8	--	--	229
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	219	--	19	--	0	--	--	238
Normal Butylene	--	--	0	--	--	--	7	--	--	-8
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	108	--	583	-1,964	-34	111	-1,883	255	210
Hydrogen/Biofuels/Other Hydrocarbons	--	108	--	1	127	159	-5	288	48	64
Hydrogen	--	--	--	--	--	132	--	132	--	0
Biofuels (including Fuel Ethanol)	--	108	--	--	127	28	-5	156	48	64
Fuel Ethanol	--	24	--	--	135	28	-6	146	46	0
Biofuels (excluding Fuel Ethanol) ⁷	--	84	--	--	-8	--	1	10	1	64
Other Hydrocarbons	--	--	--	1	--	-1	--	--	--	0
Unfinished Oils	--	--	--	510	10	--	10	206	159	146
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	72	-2,101	-194	106	-2,376	49	0
Reformulated	--	--	--	--	-494	100	17	-411	0	0
Conventional	--	--	--	72	-1,607	-294	89	-1,965	48	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	0	7,601	176	-1,460	165	88	--	2,845	3,551
Finished Motor Gasoline	--	0	2,108	--	-132	165	4	--	750	1,387
Reformulated	--	--	452	--	--	-82	--	--	--	370
Conventional	--	0	1,655	--	-132	248	4	--	750	1,017
Finished Aviation Gasoline	--	--	9	--	-1	--	2	--	--	6
Kerosene-Type Jet Fuel	--	--	897	--	-524	--	22	--	175	175
Kerosene	--	--	5	--	--	--	6	--	--	-1
Distillate Fuel Oil	--	0	3,093	1	-836	--	-18	--	1,400	877
15 ppm sulfur and under	--	0	2,867	--	-813	--	2	--	1,220	833
Greater than 15 ppm to 500 ppm sulfur	--	0	94	1	-4	--	-1	--	84	8
Greater than 500 ppm sulfur	--	--	132	--	-19	--	-19	--	96	36
Residual Fuel Oil	--	--	76	89	22	--	32	--	52	103
Less than 0.31 percent sulfur	--	--	34	--	3	--	-6	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	43	10	12	--	5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	-1	79	7	--	33	--	NA	NA
Petrochemical Feedstocks	--	--	221	12	4	--	4	--	--	233
Naphtha for Petro. Feed. Use	--	--	113	10	3	--	2	--	--	124
Other Oils for Petro. Feed. Use	--	--	107	2	1	--	1	--	--	109
Special Naphthas	--	--	33	14	1	--	-3	--	--	51
Lubricants	--	--	139	44	-23	--	23	--	101	35
Waxes	--	--	5	2	--	--	0	--	1	6
Petroleum Coke	--	--	478	14	39	--	14	--	359	157
Marketable	--	--	370	14	39	--	14	--	359	50
Catalyst	--	--	107	--	--	--	--	--	--	107
Asphalt and Road Oil	--	--	91	--	-9	--	3	--	4	75
Still Gas	--	--	391	--	--	--	--	--	--	391
Miscellaneous Products	--	--	57	--	0	--	0	--	2	55
Total	12,225	108	8,127	2,394	-1,643	1,085	-198	7,475	8,356	6,662

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	8,277	--	--	1,353	1,022	768	-551	8,659	3,312	0
Hydrocarbon Gas Liquids	3,485	0	461	0	902	--	57	351	1,818	2,622
Natural Gas Liquids	3,485	0	249	0	885	--	57	351	1,818	2,392
Ethane	1,545	--	7	--	576	--	-74	--	306	1,896
Propane	1,042	--	156	0	269	--	20	--	1,203	245
Normal Butane	239	--	93	--	122	--	89	82	300	-16
Isobutane	306	--	-6	--	17	--	3	136	5	174
Natural Gasoline	352	0	--	0	-99	--	19	134	5	95
Refinery Olefins	--	--	212	0	18	--	0	--	--	229
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	219	--	18	--	0	--	--	237
Normal Butylene	--	--	-7	0	--	--	1	--	--	-7
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	100	--	483	-1,855	40	57	-1,849	384	176
Hydrogen/Biofuels/Other Hydrocarbons	--	100	--	2	161	155	1	287	72	57
Hydrogen	--	--	--	--	--	127	--	127	--	0
Biofuels (including Fuel Ethanol)	--	100	--	2	161	28	1	159	72	57
Fuel Ethanol	--	23	--	--	166	28	1	147	69	0
Biofuels (excluding Fuel Ethanol) ⁷	--	77	--	2	-6	--	0	13	3	57
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	429	16	--	30	40	257	117
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	52	-2,032	-114	26	-2,175	55	0
Reformulated	--	--	--	--	-380	106	19	-292	0	0
Conventional	--	--	--	52	-1,652	-220	7	-1,883	55	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	-1	--	1
Finished Petroleum Products	--	0	7,270	218	-1,473	87	34	--	2,683	3,384
Finished Motor Gasoline	--	0	2,150	1	-93	87	0	--	791	1,353
Reformulated	--	--	449	--	--	-97	--	--	--	353
Conventional	--	0	1,700	1	-93	184	0	--	791	1,000
Finished Aviation Gasoline	--	--	9	0	-3	--	0	--	--	6
Kerosene-Type Jet Fuel	--	--	840	--	-512	--	6	--	154	168
Kerosene	--	--	1	--	-1	--	1	--	6	-7
Distillate Fuel Oil	--	0	2,885	1	-896	--	14	--	1,134	843
15 ppm sulfur and under	--	0	2,695	1	-864	--	6	--	970	856
Greater than 15 ppm to 500 ppm sulfur	--	0	81	0	-5	--	1	--	81	-7
Greater than 500 ppm sulfur	--	--	109	1	-27	--	6	--	82	-6
Residual Fuel Oil	--	--	67	153	25	--	12	--	81	153
Less than 0.31 percent sulfur	--	--	29	4	1	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	39	10	13	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	-2	140	11	--	10	--	NA	NA
Petrochemical Feedstocks	--	--	200	8	2	--	0	--	--	210
Naphtha for Petro. Feed. Use	--	--	117	6	2	--	0	--	--	125
Other Oils for Petro. Feed. Use	--	--	83	1	0	--	0	--	--	84
Special Naphthas	--	--	35	9	-1	--	0	--	--	44
Lubricants	--	--	135	34	-24	--	-5	--	82	68
Waxes	--	--	5	1	--	--	0	--	1	5
Petroleum Coke	--	--	452	9	31	--	1	--	423	69
Marketable	--	--	350	9	31	--	1	--	423	-34
Catalyst	--	--	103	--	--	--	--	--	--	103
Asphalt and Road Oil	--	--	81	0	-3	--	3	--	10	66
Still Gas	--	--	355	--	--	--	--	--	--	355
Miscellaneous Products	--	--	54	--	0	--	1	--	1	52
Total	11,762	99	7,731	2,054	-1,404	895	-403	7,162	8,197	6,181

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	26,245	--	--	12,603	-21,294	1,581	-456	19,591	--	0	23,644
Hydrocarbon Gas Liquids	17,639	-11	597	297	-16,248	--	407	540	41	1,286	7,530
Natural Gas Liquids	17,639	-11	465	297	-16,248	--	405	540	41	1,156	7,440
Ethane	6,048	--	--	--	-6,233	--	-73	--	--	-112	1,404
Propane	5,784	--	238	297	-5,020	--	263	--	--	1,036	2,448
Normal Butane	2,300	--	227	--	-2,029	--	182	135	1	180	2,426
Isobutane	1,037	--	0	--	-962	--	-11	203	--	-117	437
Natural Gasoline	2,470	-11	--	--	-2,004	--	44	202	41	169	725
Refinery Olefins	--	--	132	--	--	--	2	--	--	130	90
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	12	--	--	--	0	--	--	12	1
Normal Butylene	--	--	120	--	--	--	2	--	--	118	89
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	810	--	113	1,277	190	628	1,378	25	359	9,198
Hydrogen/Biofuels/Other Hydrocarbons	--	810	--	4	351	402	73	1,275	24	195	616
Hydrogen	--	--	--	--	--	223	--	223	--	0	--
Biofuels (including Fuel Ethanol)	--	810	--	4	351	179	73	1,052	24	195	616
Fuel Ethanol	--	458	--	--	319	179	-21	977	--	0	381
Biofuels (excluding Fuel Ethanol) ⁶	--	352	--	4	32	--	94	75	24	195	235
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	6	--	--	141	-300	1	164	2,847
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	103	926	-211	414	403	1	0	5,735
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	103	926	-211	414	403	1	0	5,735
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	-1	21,783	345	-240	33	49	--	14	21,857	8,181
Finished Motor Gasoline	--	--	10,989	--	-275	33	-44	--	1	10,790	1,083
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	10,989	--	-275	33	-44	--	1	10,790	1,083
Finished Aviation Gasoline	--	--	9	--	--	--	5	--	--	4	8
Kerosene-Type Jet Fuel	--	--	1,216	65	660	--	-98	--	0	2,039	714
Kerosene	--	--	--	--	--	--	0	--	--	0	2
Distillate Fuel Oil	--	-1	6,599	204	-184	--	264	--	--	6,355	3,899
15 ppm sulfur and under	--	-1	6,535	204	-184	--	263	--	--	6,292	3,685
Greater than 15 ppm to 500 ppm sulfur	--	--	84	--	--	--	19	--	--	65	164
Greater than 500 ppm sulfur	--	--	-20	--	--	--	-18	--	--	-2	50
Residual Fuel Oil	--	--	346	--	--	--	22	--	--	324	225
Less than 0.31 percent sulfur	--	--	162	--	--	--	9	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	65	--	--	--	15	--	NA	NA	37
Greater than 1.00 percent sulfur	--	--	119	--	--	--	-2	--	NA	NA	160
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	8	-8	--
Waxes	--	--	--	--	--	--	--	--	--	--	--
Petroleum Coke	--	--	693	--	-32	--	14	--	0	647	174
Marketable	--	--	479	--	-32	--	14	--	0	433	174
Catalyst	--	--	214	--	--	--	--	--	--	214	--
Asphalt and Road Oil	--	--	1,083	75	-409	--	-114	--	5	858	2,054
Still Gas	--	--	712	--	--	--	--	--	--	712	--
Miscellaneous Products	--	--	136	1	--	--	0	--	0	137	22
Total	43,884	799	22,380	13,358	-36,505	1,804	627	21,509	81	23,502	48,553

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	178,547	--	--	81,786	-134,202	-6,137	-682	120,675	0	0	23,644
Hydrocarbon Gas Liquids	115,512	-72	2,648	2,586	-106,946	--	352	3,440	356	9,581	7,530
Natural Gas Liquids	115,512	-72	1,748	2,586	-106,946	--	338	3,440	356	8,695	7,440
Ethane	38,446	--	--	--	-39,574	--	105	--	1	-1,234	1,404
Propane	39,286	--	1,463	2,443	-34,194	--	-385	--	8	9,375	2,448
Normal Butane	15,421	--	315	139	-13,215	--	607	1,216	23	814	2,426
Isobutane	6,892	--	-30	4	-7,166	--	-1	1,207	--	-1,506	437
Natural Gasoline	15,467	-72	--	--	-12,797	--	12	1,017	324	1,245	725
Refinery Olefins	--	--	900	--	--	--	14	--	--	886	90
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	264	--	--	--	-2	--	--	266	1
Normal Butylene	--	--	636	--	--	--	16	--	--	620	89
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	4,898	--	632	6,744	1,650	-558	11,963	72	2,447	9,198
Hydrogen/Biofuels/Other Hydrocarbons	--	4,898	--	62	2,428	2,432	195	8,238	68	1,319	616
Hydrogen	--	--	--	--	--	1,566	--	1,566	--	0	--
Biofuels (including Fuel Ethanol)	--	4,898	--	62	2,428	866	195	6,672	68	1,319	616
Fuel Ethanol	--	3,061	--	7	2,276	866	2	6,206	2	0	381
Biofuels (excluding Fuel Ethanol) ⁶	--	1,837	--	55	153	--	194	466	66	1,319	235
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	130	--	--	77	-1,077	2	1,128	2,847
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	440	4,316	-782	-830	4,802	2	0	5,735
Reformulated	--	--	--	--	40	-40	--	--	--	--	--
Conventional	--	--	--	440	4,276	-742	-830	4,802	2	0	5,735
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	-3	139,068	2,256	-605	-84	-554	--	104	141,083	8,181
Finished Motor Gasoline	--	--	71,847	20	-2,257	-84	-499	--	7	70,018	1,083
Reformulated	--	--	--	--	--	44	--	--	--	44	--
Conventional	--	--	71,847	20	-2,257	-128	-499	--	7	69,974	1,083
Finished Aviation Gasoline	--	--	24	3	--	--	-1	--	--	28	8
Kerosene-Type Jet Fuel	--	--	7,197	284	4,647	--	22	--	0	12,106	714
Kerosene	--	--	2	--	--	--	1	--	--	1	2
Distillate Fuel Oil	--	-3	41,381	1,368	756	--	-627	--	0	44,129	3,899
15 ppm sulfur and under	--	-3	40,949	1,365	756	--	-612	--	0	43,679	3,685
Greater than 15 ppm to 500 ppm sulfur	--	--	449	--	--	--	1	--	--	448	164
Greater than 500 ppm sulfur	--	--	-17	3	--	--	-16	--	--	2	50
Residual Fuel Oil	--	--	2,281	--	--	--	13	--	--	2,268	225
Less than 0.31 percent sulfur	--	--	1,163	--	--	--	6	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	292	--	--	--	33	--	NA	NA	37
Greater than 1.00 percent sulfur	--	--	826	--	--	--	-26	--	NA	NA	160
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	82	-82	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	4,272	--	-864	--	37	--	0	3,371	174
Marketable	--	--	2,821	--	-864	--	37	--	0	1,920	174
Catalyst	--	--	1,451	--	--	--	--	--	--	1,451	--
Asphalt and Road Oil	--	--	6,793	574	-2,887	--	495	--	14	3,971	2,054
Still Gas	--	--	4,427	--	--	--	--	--	--	4,427	--
Miscellaneous Products	--	--	844	7	--	--	5	--	0	846	22
Total	294,059	4,823	141,716	87,260	-235,009	-4,571	-1,442	136,078	531	153,110	48,553

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocetene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	847	--	--	407	-687	51	-15	632	--	0
Hydrocarbon Gas Liquids	569	0	19	10	-524	--	13	17	1	41
Natural Gas Liquids	569	0	15	10	-524	--	13	17	1	37
Ethane	195	--	--	--	-201	--	-2	--	--	-4
Propane	187	--	8	10	-162	--	8	--	--	33
Normal Butane	74	--	7	--	-65	--	6	4	0	6
Isobutane	33	--	0	--	-31	--	0	7	--	-4
Natural Gasoline	80	0	--	--	-65	--	1	7	1	5
Refinery Olefins	--	--	4	--	--	--	0	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	4	--	--	--	0	--	--	4
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	26	--	4	41	6	20	44	1	12
Hydrogen/Biofuels/Other Hydrocarbons	--	26	--	0	11	13	2	41	1	6
Hydrogen	--	--	--	--	--	7	--	7	--	0
Biofuels (including Fuel Ethanol)	--	26	--	0	11	6	2	34	1	6
Fuel Ethanol	--	15	--	--	10	6	-1	32	--	0
Biofuels (excluding Fuel Ethanol) ⁶	--	11	--	0	1	--	3	2	1	6
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	0	--	--	5	-10	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	3	30	-7	13	13	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	3	30	-7	13	13	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	703	11	-8	1	2	--	0	705
Finished Motor Gasoline	--	--	354	--	-9	1	-1	--	0	348
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	354	--	-9	1	-1	--	0	348
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	39	2	21	--	-3	--	0	66
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	213	7	-6	--	9	--	--	205
15 ppm sulfur and under	--	0	211	7	-6	--	8	--	--	203
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	--	--	1	--	--	2
Greater than 500 ppm sulfur	--	--	-1	--	--	--	-1	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	1	--	--	10
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	2	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	--	--
Petroleum Coke	--	--	22	--	-1	--	0	--	0	21
Marketable	--	--	15	--	-1	--	0	--	0	14
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	35	2	-13	--	-4	--	0	28
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,416	26	722	431	-1,178	58	20	694	3	758

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	842	--	--	386	-633	-29	-3	569	0	0
Hydrocarbon Gas Liquids	545	0	12	12	-504	--	2	16	2	45
Natural Gas Liquids	545	0	8	12	-504	--	2	16	2	41
Ethane	181	--	--	--	-187	--	0	--	0	-6
Propane	185	--	7	12	-161	--	-2	--	0	44
Normal Butane	73	--	1	1	-62	--	3	6	0	4
Isobutane	33	--	0	0	-34	--	0	6	--	-7
Natural Gasoline	73	0	--	--	-60	--	0	5	2	6
Refinery Olefins	--	--	4	--	--	--	0	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Normal Butylene	--	--	3	--	--	--	0	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	23	--	3	32	8	-3	56	0	12
Hydrogen/Biofuels/Other Hydrocarbons	--	23	--	0	11	11	1	39	0	6
Hydrogen	--	--	--	--	--	7	--	7	--	0
Biofuels (including Fuel Ethanol)	--	23	--	0	11	4	1	31	0	6
Fuel Ethanol	--	14	--	0	11	4	0	29	0	0
Biofuels (excluding Fuel Ethanol) ⁶	--	9	--	0	1	--	1	2	0	6
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1	--	--	0	-5	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	20	-4	-4	23	0	0
Reformulated	--	--	--	--	0	0	--	--	--	--
Conventional	--	--	--	2	20	-4	-4	23	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	0	656	11	-3	0	-3	--	0	665
Finished Motor Gasoline	--	--	339	0	-11	0	-2	--	0	330
Reformulated	--	--	--	--	--	0	--	--	--	0
Conventional	--	--	339	0	-11	-1	-2	--	0	330
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	34	1	22	--	0	--	0	57
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	195	6	4	--	-3	--	0	208
15 ppm sulfur and under	--	0	193	6	4	--	-3	--	0	206
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	0	--	--	0	--	--	0
Residual Fuel Oil	--	--	11	--	--	--	0	--	--	11
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	20	--	-4	--	0	--	0	16
Marketable	--	--	13	--	-4	--	0	--	0	9
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	32	3	-14	--	2	--	0	19
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,387	23	668	412	-1,109	-22	-7	642	3	722

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	23,960	--	--	38,142	2,083	3,868	3,801	64,252	--	0	50,117
Hydrocarbon Gas Liquids	2,189	-5	2,392	1,223	732	--	513	2,175	1,793	2,049	3,785
Natural Gas Liquids	2,189	-5	2,245	1,223	732	--	533	2,175	1,793	1,882	3,750
Ethane	1	--	--	--	--	--	-1	--	0	2	--
Propane	272	--	1,040	906	345	--	355	--	1,048	1,160	1,278
Normal Butane	585	--	1,144	317	265	--	204	469	742	896	2,029
Isobutane	345	--	61	--	122	--	-27	817	2	-264	401
Natural Gasoline	986	-5	--	--	--	--	2	889	1	88	42
Refinery Olefins	--	--	147	--	--	--	-20	--	--	167	35
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	172	--	--	--	0	--	--	172	10
Normal Butylene	--	--	-25	--	--	--	-20	--	--	-5	25
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	1,026	--	4,370	9,927	-790	-1,720	13,298	742	2,213	51,877
Hydrogen/Biofuels/Other Hydrocarbons	--	1,027	--	760	5,335	1,248	86	6,716	330	1,237	5,240
Hydrogen	--	--	--	--	--	1,391	--	1,391	--	0	--
Biofuels (including Fuel Ethanol)	--	1,027	--	760	5,335	-143	86	5,325	330	1,237	5,240
Fuel Ethanol	--	209	--	--	4,709	-143	-6	4,562	219	0	2,442
Biofuels (excluding Fuel Ethanol) ⁶	--	818	--	760	626	--	92	763	112	1,237	2,798
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,517	276	--	-1,116	2,724	209	976	19,025
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	1,093	4,316	-2,038	-690	3,858	203	0	27,612
Reformulated	--	0	--	--	1,869	679	-213	2,760	1	0	13,777
Conventional	--	--	--	1,093	2,447	-2,718	-477	1,098	201	0	13,835
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	77	82,189	5,434	2,144	2,181	-306	--	6,686	85,645	35,335
Finished Motor Gasoline	--	66	44,198	709	65	2,181	219	--	517	46,484	2,187
Reformulated	--	--	30,608	--	--	-475	-9	--	--	30,142	18
Conventional	--	66	13,590	709	65	2,656	228	--	517	16,341	2,169
Finished Aviation Gasoline	--	--	--	7	--	--	25	--	--	-18	212
Kerosene-Type Jet Fuel	--	12	12,572	3,640	273	--	152	--	823	15,521	9,749
Kerosene	--	--	2	--	--	--	-1	--	--	3	5
Distillate Fuel Oil	--	-1	14,641	627	1,403	--	87	--	2,020	14,562	13,217
15 ppm sulfur and under	--	-1	14,260	627	1,403	--	294	--	1,448	14,547	12,289
Greater than 15 ppm to 500 ppm sulfur	--	--	107	--	--	--	-146	--	394	-141	250
Greater than 500 ppm sulfur	--	--	274	--	--	--	-61	--	179	156	678
Residual Fuel Oil	--	--	1,694	304	--	--	-310	--	20	2,288	5,200
Less than 0.31 percent sulfur	--	--	54	--	--	--	272	--	NA	NA	1,220
0.31 to 1.00 percent sulfur	--	--	765	39	--	--	48	--	NA	NA	668
Greater than 1.00 percent sulfur	--	--	875	265	--	--	-630	--	NA	NA	3,312
Petrochemical Feedstocks	--	--	--	--	--	--	0	--	--	0	2
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	0	--	--	0	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	16	--	--	--	9	--	--	7	26
Lubricants	--	--	117	71	--	--	-209	--	291	106	764
Waxes	--	--	--	6	--	--	--	--	3	3	--
Petroleum Coke	--	--	3,929	--	-39	--	-215	--	2,983	1,122	1,538
Marketable	--	--	3,060	--	-39	--	-215	--	2,983	253	1,538
Catalyst	--	--	869	--	--	--	--	--	--	869	--
Asphalt and Road Oil	--	--	943	70	442	--	-64	--	27	1,492	2,355
Still Gas	--	--	3,713	--	--	--	--	--	--	3,713	--
Miscellaneous Products	--	--	364	--	--	--	1	--	0	363	80
Total	26,149	1,098	84,581	49,169	14,885	5,259	2,288	79,725	9,221	89,907	141,114

-- = Not Applicable.

NA = No Data Reported.

-- = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	167,059	--	--	248,921	17,125	17,300	3,369	445,487	1,548	0	50,117
Hydrocarbon Gas Liquids	15,314	-40	11,833	9,361	6,251	--	189	15,956	11,251	15,324	3,785
Natural Gas Liquids	15,314	-40	10,694	9,361	6,251	--	204	15,956	11,251	14,170	3,750
Ethane	6	--	--	--	--	--	0	--	5	1	--
Propane	1,695	--	6,842	5,519	2,545	--	-392	--	5,240	11,753	1,278
Normal Butane	4,070	--	3,337	3,842	2,714	--	516	4,786	5,829	2,832	2,029
Isobutane	2,244	--	515	--	992	--	67	4,461	7	-784	401
Natural Gasoline	7,299	-40	--	--	--	--	13	6,709	169	368	42
Refinery Olefins	--	--	1,139	--	--	--	-15	--	--	1,154	35
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,247	--	--	--	-6	--	--	1,253	10
Normal Butylene	--	--	-108	--	--	--	-9	--	--	-99	25
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	7,040	--	27,591	65,026	286	376	81,967	5,521	12,079	51,877
Hydrogen/Biofuels/Other Hydrocarbons	--	7,041	--	4,800	33,551	11,425	247	45,587	3,657	7,325	5,240
Hydrogen	--	--	--	--	--	9,450	--	9,450	--	0	--
Biofuels (including Fuel Ethanol)	--	7,041	--	4,800	33,551	1,975	247	36,137	3,657	7,325	5,240
Fuel Ethanol	--	1,574	--	500	28,632	1,975	85	31,002	1,595	0	2,442
Biofuels (excluding Fuel Ethanol) ⁶	--	5,466	--	4,300	4,919	--	163	5,135	2,063	7,325	2,798
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	14,058	276	--	92	8,591	897	4,754	19,025
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	8,733	31,199	-11,139	37	27,789	967	0	27,612
Reformulated	--	0	--	1,289	12,902	2,199	-54	16,433	11	0	13,777
Conventional	--	--	--	7,444	18,297	-13,338	91	11,356	956	0	13,835
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	387	567,296	33,722	14,616	9,164	3,470	--	51,395	570,320	35,335
Finished Motor Gasoline	--	340	304,452	5,544	603	9,164	114	--	6,337	313,652	2,187
Reformulated	--	--	212,000	--	--	618	2	--	--	212,616	18
Conventional	--	340	92,452	5,544	603	8,547	112	--	6,337	101,037	2,169
Finished Aviation Gasoline	--	--	136	16	--	--	-104	--	--	256	212
Kerosene-Type Jet Fuel	--	55	82,876	20,130	1,663	--	1,684	--	4,351	98,689	9,749
Kerosene	--	--	53	18	--	--	-30	--	8	93	5
Distillate Fuel Oil	--	-9	101,095	4,857	9,425	--	804	--	13,969	100,595	13,217
15 ppm sulfur and under	--	-9	95,372	3,720	9,425	--	679	--	10,460	97,369	12,289
Greater than 15 ppm to 500 ppm sulfur	--	--	2,163	946	--	--	-17	--	1,518	1,608	250
Greater than 500 ppm sulfur	--	--	3,560	191	--	--	142	--	1,991	1,618	678
Residual Fuel Oil	--	--	17,371	2,052	--	--	850	--	3,385	15,188	5,200
Less than 0.31 percent sulfur	--	--	287	--	--	--	131	--	NA	NA	1,220
0.31 to 1.00 percent sulfur	--	--	4,403	1,071	--	--	233	--	NA	NA	668
Greater than 1.00 percent sulfur	--	--	12,681	981	--	--	486	--	NA	NA	3,312
Petrochemical Feedstocks	--	--	--	210	--	--	0	--	--	210	2
Naphtha for Petro. Feed. Use	--	--	--	210	--	--	0	--	--	210	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	252	--	--	--	8	--	--	244	26
Lubricants	--	--	2,492	252	-212	--	-185	--	1,902	815	764
Waxes	--	--	--	244	--	--	--	--	26	218	--
Petroleum Coke	--	--	26,498	--	-355	--	203	--	21,203	4,737	1,538
Marketable	--	--	20,326	--	-355	--	203	--	21,203	-1,435	1,538
Catalyst	--	--	6,172	--	--	--	--	--	--	6,172	--
Asphalt and Road Oil	--	--	5,375	399	3,492	--	133	--	212	8,921	2,355
Still Gas	--	--	24,042	--	--	--	--	--	--	24,042	--
Miscellaneous Products	--	--	2,654	--	--	--	-7	--	2	2,659	80
Total	182,373	7,387	579,129	319,595	103,018	26,750	7,404	543,410	69,716	597,723	141,114

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isocane, and Isocane." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	773	--	--	1,230	67	125	123	2,073	--	0
Hydrocarbon Gas Liquids	71	0	77	39	24	--	17	70	58	66
Natural Gas Liquids	71	0	72	39	24	--	17	70	58	61
Ethane	0	--	--	--	--	--	0	--	0	0
Propane	9	--	34	29	11	--	11	--	34	37
Normal Butane	19	--	37	10	9	--	7	15	24	29
Isobutane	11	--	2	--	4	--	-1	26	0	-9
Natural Gasoline	32	0	--	--	--	--	0	29	0	3
Refinery Olefins	--	--	5	--	--	--	-1	--	--	5
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6	--	--	--	0	--	--	6
Normal Butylene	--	--	-1	--	--	--	-1	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	33	--	141	320	-25	-55	429	24	71
Hydrogen/Biofuels/Other Hydrocarbons	--	33	--	25	172	40	3	217	11	40
Hydrogen	--	--	--	--	--	45	--	45	--	0
Biofuels (including Fuel Ethanol)	--	33	--	25	172	-5	3	172	11	40
Fuel Ethanol	--	7	--	--	152	-5	0	147	7	0
Biofuels (excluding Fuel Ethanol) ⁶	--	26	--	25	20	--	3	25	4	40
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	81	9	--	-36	88	7	31
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	35	139	-66	-22	124	7	0
Reformulated	--	0	--	--	60	22	-7	89	0	0
Conventional	--	--	--	35	79	-88	-15	35	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	2	2,651	175	69	70	-10	--	216	2,763
Finished Motor Gasoline	--	2	1,426	23	2	70	7	--	17	1,499
Reformulated	--	--	987	--	--	-15	0	--	--	972
Conventional	--	2	438	23	2	86	7	--	17	527
Finished Aviation Gasoline	--	--	--	0	--	--	1	--	--	-1
Kerosene-Type Jet Fuel	--	0	406	117	9	--	5	--	27	501
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	0	472	20	45	--	3	--	65	470
15 ppm sulfur and under	--	0	460	20	45	--	9	--	47	469
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	--	--	-5	--	13	-5
Greater than 500 ppm sulfur	--	--	9	--	--	--	-2	--	6	5
Residual Fuel Oil	--	--	55	10	--	--	-10	--	1	74
Less than 0.31 percent sulfur	--	--	2	--	--	--	9	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	25	1	--	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	28	9	--	--	-20	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	0
Lubricants	--	--	4	2	--	--	-7	--	9	3
Waxes	--	--	--	0	--	--	--	--	0	0
Petroleum Coke	--	--	127	--	-1	--	-7	--	96	36
Marketable	--	--	99	--	-1	--	-7	--	96	8
Catalyst	--	--	28	--	--	--	--	--	--	28
Asphalt and Road Oil	--	--	30	2	14	--	-2	--	1	48
Still Gas	--	--	120	--	--	--	--	--	--	120
Miscellaneous Products	--	--	12	--	--	--	0	--	0	12
Total	844	35	2,728	1,586	480	170	74	2,572	297	2,900

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2022
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Biofuels Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	788	--	--	1,174	81	82	16	2,101	7	0
Hydrocarbon Gas Liquids	72	0	56	44	29	--	1	75	53	72
Natural Gas Liquids	72	0	50	44	29	--	1	75	53	67
Ethane	0	--	--	--	--	--	0	--	0	0
Propane	8	--	32	26	12	--	-2	--	25	55
Normal Butane	19	--	16	18	13	--	2	23	27	13
Isobutane	11	--	2	--	5	--	0	21	0	-4
Natural Gasoline	34	0	--	--	--	--	0	32	1	2
Refinery Olefins	--	--	5	--	--	--	0	--	--	5
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6	--	--	--	0	--	--	6
Normal Butylene	--	--	-1	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	33	--	130	307	1	2	387	26	57
Hydrogen/Biofuels/Other Hydrocarbons	--	33	--	23	158	54	1	215	17	35
Hydrogen	--	--	--	--	--	45	--	45	--	0
Biofuels (including Fuel Ethanol)	--	33	--	23	158	9	1	170	17	35
Fuel Ethanol	--	7	--	2	135	9	0	146	8	0
Biofuels (excluding Fuel Ethanol) ⁶	--	26	--	20	23	--	1	24	10	35
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	66	1	--	0	41	4	22
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	41	147	-53	0	131	5	0
Reformulated	--	0	--	6	61	10	0	78	0	0
Conventional	--	--	--	35	86	-63	0	54	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	2	2,676	159	69	43	16	--	242	2,690
Finished Motor Gasoline	--	2	1,436	26	3	43	1	--	30	1,479
Reformulated	--	--	1,000	--	--	3	0	--	--	1,003
Conventional	--	2	436	26	3	40	1	--	30	477
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	0	391	95	8	--	8	--	21	466
Kerosene	--	--	0	0	--	--	0	--	0	0
Distillate Fuel Oil	--	0	477	23	44	--	4	--	66	475
15 ppm sulfur and under	--	0	450	18	44	--	3	--	49	459
Greater than 15 ppm to 500 ppm sulfur	--	--	10	4	--	--	0	--	7	8
Greater than 500 ppm sulfur	--	--	17	1	--	--	1	--	9	8
Residual Fuel Oil	--	--	82	10	--	--	4	--	16	72
Less than 0.31 percent sulfur	--	--	1	--	--	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	5	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	60	5	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	--	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	--	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	12	1	-1	--	-1	--	9	4
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	125	--	-2	--	1	--	100	22
Marketable	--	--	96	--	-2	--	1	--	100	-7
Catalyst	--	--	29	--	--	--	--	--	--	29
Asphalt and Road Oil	--	--	25	2	16	--	1	--	1	42
Still Gas	--	--	113	--	--	--	--	--	--	113
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	860	35	2,732	1,508	486	126	35	2,563	329	2,819

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for hydrogen, motor gasoline blending components, and fuel ethanol. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes biodiesel, renewable diesel fuel, renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, July 2022
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,933	50,340	263,307	26,245	23,960	365,785	11,800
Alaskan	--	--	--	--	--	13,379	432
Lower 48 States	--	--	--	--	--	352,407	11,368
Imports (PAD District of Entry)	20,289	83,006	50,679	12,603	38,142	204,719	6,604
Commercial	20,289	83,006	50,679	12,603	38,142	204,719	6,604
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	2,664	-6,146	22,693	-21,294	2,083	--	--
Adjustments ¹	2,055	-2,638	29,556	1,581	3,868	34,422	1,110
Disposition							
Stock Change ²	-1,260	5,388	-26,079	-456	3,801	-18,606	-600
Commercial	-1,260	5,388	-761	-456	3,801	6,712	217
SPR	--	--	-25,318	--	--	-25,318	-817
Refinery Inputs	24,634	117,910	279,480	19,591	64,252	505,867	16,318
Exports	3,567	1,264	112,834	--	--	117,665	3,796
Ending Stocks							
Total	7,451	109,099	701,909	23,644	50,117	892,220	--
Commercial	7,451	109,099	233,903	23,644	50,117	424,214	--
Refinery	6,057	14,246	45,651	2,510	22,771	91,235	--
Tank Farms and Pipelines	1,394	94,853	188,252	21,134	23,784	329,417	--
Cushing, Oklahoma	--	24,956	--	--	--	24,956	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,562	3,562	--
SPR	--	--	468,006	--	--	468,006	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	52.5	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	27.8	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	--	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	20,289	83,006	50,679	12,603	38,142	204,719	6,604
PAD District of Processing	20,972	73,932	61,989	9,273	38,553	204,719	6,604

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 26. Production of Crude Oil by PAD District and State, July 2022
(Thousand Barrels)

PAD District and State	July 2022		January-July 2022	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,933	62	13,406	63
Florida	106	3	725	3
New York	23	1	125	1
Pennsylvania	398	13	2,951	14
Virginia	0	0	2	0
West Virginia	1,406	45	9,602	45
PAD District 2	50,340	1,624	348,191	1,642
Illinois	553	18	4,014	19
Indiana	137	4	990	5
Kansas	2,518	81	16,553	78
Kentucky	395	13	1,326	6
Michigan	380	12	2,566	12
Missouri	7	0	39	0
Nebraska	120	4	907	4
North Dakota	32,053	1,034	222,712	1,051
Ohio	1,676	54	11,496	54
Oklahoma	12,400	400	86,928	410
South Dakota	90	3	569	3
Tennessee	12	0	92	0
PAD District 3	263,307	8,494	1,754,797	8,277
Alabama	319	10	2,236	11
Arkansas	378	12	2,571	12
Louisiana	3,222	104	21,134	100
Mississippi	1,002	32	7,348	35
New Mexico	48,601	1,568	313,365	1,478
Texas	155,149	5,005	1,048,146	4,944
Federal Offshore PAD District 3	54,635	1,762	359,996	1,698
PAD District 4	26,245	847	178,547	842
Colorado	13,010	420	91,059	430
Idaho	4	0	19	0
Montana	1,862	60	11,563	55
Utah	3,754	121	24,802	117
Wyoming	7,615	246	51,104	241
PAD District 5	23,960	773	167,059	788
Alaska	13,379	432	93,229	440
South Alaska	304	10	2,031	10
North Slope	13,075	422	91,198	430
Arizona	0	0	3	0
California	10,352	334	72,170	340
Nevada	22	1	133	1
Federal Offshore PAD District 5	208	7	1,524	7
U.S. Total	365,785	11,800	2,461,999	11,613

— = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	9	19,130	19,139	5,119	13,031	17,703	35,853
Natural Gas Liquids	9	19,130	19,139	5,119	13,031	17,703	35,853
Ethane	—	7,368	7,368	1,746	3,807	7,834	13,387
Propane	3	6,756	6,759	2,153	4,631	5,150	11,934
Normal Butane	6	2,024	2,030	409	2,018	1,659	4,086
Isobutane	—	963	963	472	641	970	2,083
Natural Gasoline	—	2,019	2,019	339	1,934	2,090	4,363

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	92,687	5,190	5,245	455	12,078	115,655	17,639	2,189	190,475
Natural Gas Liquids	92,687	5,190	5,245	455	12,078	115,655	17,639	2,189	190,475
Ethane	40,724	2,606	1,991	85	5,217	50,623	6,048	1	77,427
Propane	27,409	1,357	1,741	129	3,482	34,118	5,784	272	58,867
Normal Butane	9,437	-3,210	623	61	1,174	8,085	2,300	585	17,086
Isobutane	4,895	3,972	336	46	696	9,945	1,037	345	14,373
Natural Gasoline	10,222	465	554	134	1,509	12,884	2,470	986	22,722

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	5	285	290	923	149	652	1,724
Natural Gas Liquids	5	285	290	923	149	652	1,724
Ethane	—	—	—	33	3	184	220
Propane	2	149	151	541	52	222	815
Normal Butane	3	38	41	117	32	108	257
Isobutane	—	15	15	87	10	57	154
Natural Gasoline	—	83	83	145	52	81	278

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	193	186	1,349	5	1	1,734	194	214	4,156
Natural Gas Liquids	193	186	1,349	5	1	1,734	194	214	4,156
Ethane	17	16	—	—	—	33	5	—	258
Propane	69	40	25	3	—	137	94	51	1,248
Normal Butane	19	28	290	1	—	338	36	100	772
Isobutane	52	10	231	—	—	293	15	34	511
Natural Gasoline	36	92	803	1	1	933	44	29	1,367

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	21,770	2,864	24,634	76,932	14,084	26,894	117,910
Hydrocarbon Gas Liquids	163	—	163	1,656	64	969	2,689
Natural Gas Liquids	163	—	163	1,656	64	969	2,689
Normal Butane	43	—	43	1	2	12	15
Isobutane	119	—	119	1,245	60	447	1,752
Natural Gasoline	1	—	1	410	2	510	922
Other Liquids	82,346	5,928	88,274	10,368	4,916	2,780	18,064
Hydrogen/Biofuels/Other Hydrocarbons	9,587	776	10,363	5,642	1,669	1,997	9,308
Hydrogen	75	—	75	701	294	173	1,168
Biofuels (including Fuel Ethanol)	9,512	776	10,288	4,928	1,375	1,824	8,127
Fuel Ethanol	9,325	697	10,022	4,761	1,164	1,688	7,613
Biodiesel	187	79	266	167	211	81	459
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	55	55
Other Hydrocarbons	—	—	—	13	—	—	13
Unfinished Oils (net)	1,313	-54	1,259	130	-141	-109	-120
Naphthas and Lighter	690	19	709	602	-236	-15	351
Kerosene and Light Gas Oils	152	—	152	-291	-74	-44	-409
Heavy Gas Oils	87	-76	11	40	169	42	251
Residuum	384	3	387	-221	—	-92	-313
Motor Gasoline Blend.Comp. (MGBC)(net)	71,446	5,206	76,652	4,596	3,388	892	8,876
Reformulated - RBOB	16,508	—	16,508	-171	1,276	888	1,993
Conventional	54,938	5,206	60,144	4,767	2,112	4	6,883
CBOB	42,735	5,227	47,962	4,899	2,448	12	7,359
GTAB	2,712	—	2,712	—	—	—	—
Other	9,491	-21	9,470	-132	-336	-8	-476
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	104,279	8,792	113,071	88,956	19,064	30,643	138,663

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	20,434	150,957	97,246	7,801	3,042	279,480	19,591	64,252	505,867
Hydrocarbon Gas Liquids	431	6,742	3,233	58	134	10,598	540	2,175	16,165
Natural Gas Liquids	431	6,742	3,233	58	134	10,598	540	2,175	16,165
Normal Butane	102	500	409	1	—	1,012	135	469	1,674
Isobutane	250	2,535	1,562	54	134	4,535	203	817	7,426
Natural Gasoline	79	3,707	1,262	3	—	5,051	202	889	7,065
Other Liquids	9,625	-46,618	-28,515	7,189	-44	-58,363	1,378	13,298	62,651
Hydrogen/Biofuels/Other Hydrocarbons	2,156	3,233	2,250	1,099	185	8,923	1,275	6,716	36,585
Hydrogen	102	2,266	1,632	64	21	4,085	223	1,391	6,942
Biofuels (including Fuel Ethanol)	2,054	967	618	1,035	164	4,838	1,052	5,325	29,630
Fuel Ethanol	2,029	861	499	994	152	4,535	977	4,562	27,709
Biodiesel	25	106	36	41	8	216	39	382	1,362
Renewable Diesel Fuel	—	—	—	—	—	—	—	381	381
Other Biofuels ¹	—	—	83	—	4	87	36	—	178
Other Hydrocarbons	—	—	—	—	—	—	—	—	113
Unfinished Oils (net)	-197	-3,119	9,613	51	28	6,376	-300	2,724	9,939
Naphthas and Lighter	-108	-6,833	1,061	14	26	-5,840	-37	8	-4,809
Kerosene and Light Gas Oils	90	-1,267	235	47	-3	-898	-134	-229	-1,518
Heavy Gas Oils	-156	2,324	7,737	94	5	10,004	-93	3,084	13,257
Residuum	-23	2,657	580	-104	—	3,110	-36	-139	3,009
Motor Gasoline Blend.Comp. (MGBC)(net)	7,654	-46,732	-40,367	6,039	-257	-73,663	403	3,858	16,126
Reformulated - RBOB	5,779	-10,342	-7,584	10	-602	-12,739	—	2,760	8,522
Conventional	1,875	-36,390	-32,783	6,029	345	-60,924	403	1,098	7,604
CBOB	1,931	-34,497	-31,598	6,040	322	-57,802	481	19	-1,981
GTAB	—	—	—	—	—	—	—	—	2,712
Other	-56	-1,893	-1,185	-11	23	-3,122	-78	1,079	6,873
Aviation Gasoline Blend. Comp. (net)	12	—	-11	—	—	1	—	—	1
Total Input	30,490	111,081	71,964	15,048	3,132	231,715	21,509	79,725	584,683

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	996	92	1,088	4,580	496	804	5,880
Natural Gas Liquids	667	92	759	3,522	346	568	4,436
Ethane	-	-	-	-	-	-	-
Propane	437	28	465	1,590	240	492	2,322
Normal Butane	238	76	314	2,104	162	123	2,389
Isobutane	-8	-12	-20	-172	-56	-47	-275
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	329	-	329	1,058	150	236	1,444
Ethylene	13	-	13	-	-	-	-
Propylene	272	-	272	945	150	236	1,331
Normal Butylene	-2	-	-2	113	-	-	113
Isobutylene	46	-	46	-	-	-	-
Finished Motor Gasoline	91,610	6,914	98,524	49,649	11,267	16,754	77,670
Reformulated	36,068	50	36,118	7,641	1,465	986	10,092
Reformulated Blended with Fuel Ethanol	36,065	50	36,115	7,641	1,464	986	10,091
Reformulated Other	3	-	3	-	1	-	1
Conventional	55,542	6,864	62,406	42,008	9,802	15,768	67,578
Conventional Blended with Fuel Ethanol	55,814	6,879	62,693	39,267	9,737	14,587	63,591
Ed55 and Lower	55,733	6,879	62,612	39,241	9,679	14,407	63,327
Greater than Ed55	81	-	81	26	58	180	264
Conventional Other	-272	-15	-287	2,741	65	1,181	3,987
Finished Aviation Gasoline	-	-	-	-	22	-	22
Kerosene-Type Jet Fuel	3,009	-	3,009	6,972	901	955	8,828
Kerosene	55	2	57	64	-	12	76
Distillate Fuel Oil	6,116	710	6,826	19,460	4,857	10,418	34,735
15 ppm sulfur and under	6,225	724	6,949	19,349	4,793	10,490	34,632
Greater than 15 ppm to 500 ppm sulfur	8	-23	-15	-	-	45	45
Greater than 500 ppm sulfur	-117	9	-108	111	64	-117	58
Residual Fuel Oil	1,294	-	1,294	741	180	145	1,066
Less than 0.31 percent sulfur	-	-	-	95	-	-	95
0.31 to 1.00 percent sulfur	993	-	993	326	87	32	445
Greater than 1.00 percent sulfur	301	-	301	320	93	113	526
Petrochemical Feedstocks	-	-	-	786	-	-	786
Naphtha for Petro. Feed. Use	-	-	-	446	-	-	446
Other Oils for Petro. Feed. Use	-	-	-	340	-	-	340
Special Naphthas	-	20	20	-20	-	8	-12
Lubricants	223	189	412	-	-	259	259
Waxes	-	-7	-7	-	-	52	52
Petroleum Coke	701	20	721	3,817	862	938	5,617
Marketable	271	-	271	2,732	702	666	4,100
Catalyst	430	20	450	1,085	160	272	1,517
Asphalt and Road Oil	393	694	1,087	4,164	832	364	5,360
Still Gas	837	54	891	2,669	590	1,086	4,345
Miscellaneous Products	58	52	110	328	115	43	486
Total	105,292	8,740	114,032	93,210	20,122	31,838	145,170
Processing Gain(-) or Loss(+)¹	-1,013	52	-961	-4,254	-1,058	-1,195	-6,507

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1,027	9,584	5,557	76	51	16,295	597	2,392	26,252
Natural Gas Liquids	577	5,753	3,109	51	51	9,541	465	2,245	17,446
Ethane	9	180	66	—	—	255	—	—	255
Propane	270	2,509	2,131	20	32	4,962	238	1,040	9,027
Normal Butane	292	3,427	798	31	19	4,567	227	1,144	8,641
Isobutane	6	-363	114	—	—	-243	0	61	-477
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	450	3,831	2,448	25	—	6,754	132	147	8,806
Ethylene	—	12	—	—	—	12	—	—	25
Propylene	411	3,959	2,400	25	—	6,795	12	172	8,582
Normal Butylene	39	-100	48	—	—	-13	120	-25	193
Isobutylene	—	-40	—	—	—	-40	—	—	6
Finished Motor Gasoline	20,593	24,658	9,030	9,388	1,667	65,336	10,989	44,198	296,717
Reformulated	7,140	6,876	—	—	—	14,016	—	30,608	90,834
Reformulated Blended with Fuel Ethanol	7,139	6,876	—	—	—	14,015	—	30,608	90,829
Reformulated Other	1	—	—	—	—	1	—	—	5
Conventional	13,453	17,782	9,030	9,388	1,667	51,320	10,989	13,590	205,883
Conventional Blended with Fuel Ethanol	13,043	1,492	4,988	9,782	1,508	30,813	9,495	14,476	181,068
Ed55 and Lower	13,031	1,491	4,988	9,754	1,507	30,771	9,460	14,468	180,638
Greater than Ed55	12	1	—	28	1	42	35	8	430
Conventional Other	410	16,290	4,042	-394	159	20,507	1,494	-886	24,815
Finished Aviation Gasoline	99	99	86	—	—	284	9	—	315
Kerosene-Type Jet Fuel	1,441	15,084	11,159	121	0	27,805	1,216	12,572	53,430
Kerosene	3	145	4	2	—	154	—	2	289
Distillate Fuel Oil	6,255	47,919	37,513	2,921	1,276	95,884	6,599	14,641	158,685
15 ppm sulfur and under	6,199	45,631	32,943	2,829	1,276	88,878	6,535	14,260	151,254
Greater than 15 ppm to 500 ppm sulfur	56	286	2,504	76	—	2,922	84	107	3,143
Greater than 500 ppm sulfur	—	2,002	2,066	16	—	4,084	-20	274	4,288
Residual Fuel Oil	288	1,519	554	-28	17	2,350	346	1,694	6,750
Less than 0.31 percent sulfur	295	—	755	—	—	1,050	162	54	1,361
0.31 to 1.00 percent sulfur	-17	1,008	383	-28	—	1,346	65	765	3,614
Greater than 1.00 percent sulfur	10	511	-584	—	17	-46	119	875	1,775
Petrochemical Feedstocks	51	3,913	2,876	—	—	6,840	—	—	7,626
Naphtha for Petro. Feed. Use	42	2,083	1,387	—	—	3,512	—	—	3,958
Other Oils for Petro. Feed. Use	9	1,830	1,489	—	—	3,328	—	—	3,668
Special Naphthas	53	731	—	224	—	1,008	—	16	1,032
Lubricants	19	1,681	1,774	839	—	4,313	—	117	5,101
Waxes	—	63	51	27	—	141	—	—	186
Petroleum Coke	458	8,652	5,572	105	21	14,808	693	3,929	25,768
Marketable	216	6,714	4,468	87	—	11,485	479	3,060	19,395
Catalyst	242	1,938	1,104	18	21	3,323	214	869	6,373
Asphalt and Road Oil	201	500	814	1,232	59	2,806	1,083	943	11,279
Still Gas	801	6,987	3,982	301	62	12,133	712	3,713	21,794
Miscellaneous Products	151	1,064	488	15	48	1,766	136	364	2,862
Total	31,440	122,599	79,460	15,223	3,201	251,923	22,380	84,581	618,086
Processing Gain(-) or Loss(+) ¹	-950	-11,518	-7,496	-175	-69	-20,208	-871	-4,856	-33,403

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	21,770	2,864	24,634	76,932	14,084	26,894	117,910
Hydrocarbon Gas Liquids	119	—	119	1,653	60	926	2,639
Natural Gas Liquids	119	—	119	1,653	60	926	2,639
Normal Butane	—	—	—	—	—	—	—
Isobutane	119	—	119	1,245	60	447	1,752
Natural Gasoline	—	—	—	408	—	479	887
Other Liquids	-8,654	60	-8,594	-34,101	-4,749	-11,187	-50,037
Hydrogen/Biofuels/Other Hydrocarbons	151	142	293	950	497	398	1,845
Hydrogen	75	—	75	701	294	173	1,168
Biofuels (including Fuel Ethanol)	76	142	218	236	203	225	664
Fuel Ethanol	76	110	186	195	144	148	487
Biodiesel	—	32	32	41	59	22	122
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	55	55
Other Hydrocarbons	—	—	—	13	—	—	13
Unfinished Oils (net)	1,313	-54	1,259	130	-141	-109	-120
Naphthas and Lighter	690	19	709	602	-236	-15	351
Kerosene and Light Gas Oils	152	—	152	-291	-74	-44	-409
Heavy Gas Oils	87	-76	11	40	169	42	251
Residuum	384	3	387	-221	—	-92	-313
Motor Gasoline Blend.Comp. (MGBC)(net)	-10,118	-28	-10,146	-35,181	-5,105	-11,476	-51,762
Reformulated - RBOB	-6,590	—	-6,590	-7,012	—	—	-7,012
Conventional	-3,528	-28	-3,556	-28,169	-5,105	-11,476	-44,750
CBOB	-2,760	-7	-2,767	-28,038	-4,734	-11,468	-44,240
GTAB	—	—	—	—	—	—	—
Other	-768	-21	-789	-131	-371	-8	-510
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input to Refineries	13,235	2,924	16,159	44,484	9,395	16,633	70,512
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	726	92	819	2,466	469	874	3,809
Operable Capacity (daily average)	720	98	818	2,721	548	928	4,197
Operable Utilization Rate (percent) ²	100.9	94.1	100.1	90.6	85.6	94.2	90.8
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	137	16	153	483	54	171	708
Catalytic Cracking	235	15	249	752	124	218	1,094
Catalytic Hydrocracking	49	—	49	208	54	50	312
Delayed and Fluid Coking	41	—	41	317	75	79	471
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.92	1.71	1.02	1.58	1.77	0.58	1.37
API Gravity, Weighted Average (degrees)	35.30	31.96	34.89	33.02	27.85	39.34	33.77
Operable Capacity (daily average)	720	98	818	2,721	548	928	4,197
Operating	720	98	818	2,721	510	928	4,159
Idle	—	—	—	—	38	—	38
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	20,434	150,957	97,246	7,801	3,042	279,480	19,591	64,252	505,867
Hydrocarbon Gas Liquids	424	3,833	3,229	57	134	7,677	515	2,167	13,117
Natural Gas Liquids	424	3,833	3,229	57	134	7,677	515	2,167	13,117
Normal Butane	102	332	405	—	—	839	127	461	1,427
Isobutane	250	2,535	1,562	54	134	4,535	199	817	7,422
Natural Gasoline	72	966	1,262	3	—	2,303	189	889	4,268
Other Liquids	-8,182	-54,164	-31,583	-1,668	-1,452	-97,049	-4,852	-29,191	-189,723
Hydrogen/Biofuels/Other Hydrocarbons	312	2,366	1,943	113	31	4,765	567	1,805	9,275
Hydrogen	102	2,266	1,632	64	21	4,085	223	1,391	6,942
Biofuels (including Fuel Ethanol)	210	100	311	49	10	680	344	414	2,320
Fuel Ethanol	197	50	192	42	5	486	288	125	1,572
Biodiesel	13	50	36	7	1	107	20	18	299
Renewable Diesel Fuel	—	—	—	—	—	—	—	271	271
Other Biofuels ¹	—	—	83	—	4	87	36	—	178
Other Hydrocarbons	—	—	—	—	—	—	—	—	13
Unfinished Oils (net)	-208	-3,119	9,613	51	28	6,365	-300	2,724	9,928
Naphthas and Lighter	-119	-6,833	1,061	14	26	-5,851	-37	8	-4,820
Kerosene and Light Gas Oils	90	-1,267	235	47	-3	-898	-134	-229	-1,518
Heavy Gas Oils	-156	2,324	7,737	94	5	10,004	-93	3,084	13,257
Residuum	-23	2,657	580	-104	—	3,110	-36	-139	3,009
Motor Gasoline Blend.Comp. (MGBC)(net)	-8,298	-53,411	-43,128	-1,832	-1,511	-108,180	-5,119	-33,720	-208,927
Reformulated - RBOB	-717	-16,114	-7,584	—	-602	-25,017	—	-24,013	-62,632
Conventional	-7,581	-37,297	-35,544	-1,832	-909	-83,163	-5,119	-9,707	-146,295
CBOB	-7,525	-30,089	-32,981	-1,821	-892	-73,308	-5,040	-10,535	-135,890
GTAB	—	—	—	—	—	—	—	—	—
Other	-56	-7,208	-2,563	-11	-17	-9,855	-79	828	-10,405
Aviation Gasoline Blend. Comp. (net)	12	—	-11	—	—	1	—	—	1
Total Input to Refineries	12,676	100,626	68,892	6,190	1,724	190,108	15,254	37,228	329,261
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	663	5,054	3,355	234	98	9,403	623	2,233	16,886
Operable Capacity (daily average)	746	5,221	3,288	260	110	9,625	663	2,659	17,962
Operable Utilization Rate (percent) ²	88.8	96.8	102.0	89.9	89.2	97.7	94.0	84.0	94.0
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	148	709	607	38	23	1,524	100	381	2,868
Catalytic Cracking	178	1,396	896	19	23	2,511	173	601	4,628
Catalytic Hydrocracking	40	581	484	19	15	1,140	23	448	1,971
Delayed and Fluid Coking	29	779	530	27	—	1,365	56	402	2,335
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.63	1.44	1.30	1.26	0.83	1.31	1.29	1.32	1.31
API Gravity, Weighted Average (degrees)	39.76	33.57	31.58	32.25	38.59	33.46	32.52	29.16	32.97
Operable Capacity (daily average)	746	5,221	3,288	260	110	9,625	663	2,659	17,962
Operating	746	5,221	3,288	260	110	9,625	654	2,644	17,899
Idle	—	—	—	—	—	—	10	16	63
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	14,588	14,588

— = Not Applicable.

— = No Data Reported.

NA = Not Available.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

² Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	996	92	1,088	4,580	496	804	5,880
Natural Gas Liquids	667	92	759	3,522	346	568	4,436
Ethane	-	-	-	-	-	-	-
Propane	437	28	465	1,590	240	492	2,322
Normal Butane	238	76	314	2,104	162	123	2,389
Isobutane	-8	-12	-20	-172	-56	-47	-275
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	329	-	329	1,058	150	236	1,444
Ethylene	13	-	13	-	-	-	-
Propylene	272	-	272	945	150	236	1,331
Normal Butylene	-2	-	-2	113	-	-	113
Isobutylene	46	-	46	-	-	-	-
Finished Motor Gasoline	754	1,091	1,845	5,245	1,750	2,809	9,804
Reformulated	754	-	754	-	-	-	-
Reformulated Blended with Fuel Ethanol	754	-	754	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,091	1,091	5,245	1,750	2,809	9,804
Conventional Blended with Fuel Ethanol	-	1,106	1,106	1,983	1,390	1,538	4,911
Ed55 and Lower	-	1,106	1,106	1,983	1,390	1,538	4,911
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	-15	-15	3,262	360	1,271	4,893
Finished Aviation Gasoline	-	-	-	-	22	-	22
Kerosene-Type Jet Fuel	3,009	-	3,009	7,000	903	956	8,859
Kerosene	55	2	57	64	-	12	76
Distillate Fuel Oil	5,934	665	6,599	19,365	4,705	10,362	34,432
15 ppm sulfur and under	6,039	679	6,718	19,254	4,641	10,432	34,327
Greater than 15 ppm to 500 ppm sulfur	5	-23	-18	-	-	-59	-59
Greater than 500 ppm sulfur	-110	9	-101	111	64	-11	164
Residual Fuel Oil	1,287	-	1,287	778	180	145	1,103
Less than 0.31 percent sulfur	-	-	-	95	-	-	95
0.31 to 1.00 percent sulfur	995	-	995	326	87	32	445
Greater than 1.00 percent sulfur	292	-	292	357	93	113	563
Petrochemical Feedstocks	-	-	-	786	-	-	786
Naphtha for Petro. Feed. Use	-	-	-	446	-	-	446
Other Oils for Petro. Feed. Use	-	-	-	340	-	-	340
Special Naphthas	-	20	20	-20	-	8	-12
Lubricants	223	189	412	-	-	259	259
Waxes	-	-7	-7	-	-	52	52
Petroleum Coke	701	20	721	3,817	862	938	5,617
Marketable	271	-	271	2,732	702	666	4,100
Catalyst	430	20	450	1,085	160	272	1,517
Asphalt and Road Oil	393	694	1,087	4,127	830	359	5,316
Still Gas	837	54	891	2,669	590	1,086	4,345
Miscellaneous Products	58	52	110	328	115	43	486
Total	14,247	2,872	17,119	48,739	10,453	17,833	77,025
Processing Gain(-) or Loss(+) ¹	-1,012	52	-960	-4,255	-1,058	-1,200	-6,513

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1,027	9,584	5,557	76	51	16,295	597	2,392	26,252
Natural Gas Liquids	577	5,753	3,109	51	51	9,541	465	2,245	17,446
Ethane	9	180	66	—	—	255	—	—	255
Propane	270	2,509	2,131	20	32	4,962	238	1,040	9,027
Normal Butane	292	3,427	798	31	19	4,567	227	1,144	8,641
Isobutane	6	-363	114	—	—	-243	0	61	-477
Natural Gasoline	—	—	—	—	—	—	—	—	—
Refinery Olefins	450	3,831	2,448	25	—	6,754	132	147	8,806
Ethylene	—	12	—	—	—	12	—	—	25
Propylene	411	3,959	2,400	25	—	6,795	12	172	8,582
Normal Butylene	39	-100	48	—	—	-13	120	-25	193
Isobutylene	—	-40	—	—	—	-40	—	—	6
Finished Motor Gasoline	2,791	14,259	5,960	565	270	23,845	4,756	2,165	42,415
Reformulated	—	—	—	—	—	—	—	618	1,372
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	618	1,372
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	2,791	14,259	5,960	565	270	23,845	4,756	1,547	41,043
Conventional Blended with Fuel Ethanol	2,190	454	1,939	440	60	5,083	2,899	702	14,701
Ed55 and Lower	2,190	454	1,939	440	60	5,083	2,899	702	14,701
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	601	13,805	4,021	125	210	18,762	1,857	845	26,342
Finished Aviation Gasoline	99	99	86	—	—	284	9	—	315
Kerosene-Type Jet Fuel	1,441	15,061	11,150	121	—	27,773	1,139	12,559	53,339
Kerosene	3	168	4	2	—	177	—	1	311
Distillate Fuel Oil	6,242	47,863	37,521	2,884	1,265	95,775	6,656	14,200	157,662
15 ppm sulfur and under	6,186	45,575	32,951	2,792	1,265	88,769	6,592	13,822	150,228
Greater than 15 ppm to 500 ppm sulfur	56	286	2,504	76	—	2,922	84	107	3,036
Greater than 500 ppm sulfur	—	2,002	2,066	16	—	4,084	-20	271	4,398
Residual Fuel Oil	288	1,519	554	-28	17	2,350	346	1,694	6,780
Less than 0.31 percent sulfur	295	—	755	—	—	1,050	162	54	1,361
0.31 to 1.00 percent sulfur	-17	1,008	383	-28	—	1,346	65	766	3,617
Greater than 1.00 percent sulfur	10	511	-584	—	17	-46	119	874	1,802
Petrochemical Feedstocks	51	3,913	2,876	—	—	6,840	—	—	7,626
Naphtha for Petro. Feed. Use	42	2,083	1,387	—	—	3,512	—	—	3,958
Other Oils for Petro. Feed. Use	9	1,830	1,489	—	—	3,328	—	—	3,668
Special Naphthas	53	731	—	224	—	1,008	—	16	1,032
Lubricants	19	1,681	1,774	839	—	4,313	—	117	5,101
Waxes	—	63	51	27	—	141	—	—	186
Petroleum Coke	458	8,652	5,572	105	21	14,808	693	3,929	25,768
Marketable	216	6,714	4,468	87	—	11,485	479	3,060	19,395
Catalyst	242	1,938	1,104	18	21	3,323	214	869	6,373
Asphalt and Road Oil	201	500	814	1,232	59	2,806	1,083	943	11,235
Still Gas	801	6,987	3,982	301	62	12,133	712	3,713	21,794
Miscellaneous Products	151	1,064	488	15	48	1,766	136	364	2,862
Total	13,625	112,144	76,389	6,363	1,793	210,314	16,127	42,093	362,678
Processing Gain(-) or Loss(+) ¹	-949	-11,518	-7,497	-173	-69	-20,206	-873	-4,865	-33,417

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, July 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	44	—	44	3	4	43	50
Natural Gas Liquids	44	—	44	3	4	43	50
Normal Butane	43	—	43	1	2	12	15
Isobutane	—	—	—	—	—	—	—
Natural Gasoline	1	—	1	2	2	31	35
Other Liquids	91,000	5,868	96,868	44,469	9,665	13,967	68,101
Oxygenates/Renewables	9,436	634	10,070	4,692	1,172	1,599	7,463
Biofuels (including Fuel Ethanol)	9,436	634	10,070	4,692	1,172	1,599	7,463
Fuel Ethanol	9,249	587	9,836	4,566	1,020	1,540	7,126
Biodiesel	187	47	234	126	152	59	337
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	—	—	—	—	—
Naphthas and Lighter	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)(net)	81,564	5,234	86,798	39,777	8,493	12,368	60,638
Reformulated - RBOB	23,098	—	23,098	6,841	1,276	888	9,005
Conventional	58,466	5,234	63,700	32,936	7,217	11,480	51,633
CBOB	45,495	5,234	50,729	32,937	7,182	11,480	51,599
GTAB	2,712	—	2,712	—	—	—	—
Other	10,259	—	10,259	-1	35	—	34
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	91,044	5,868	96,912	44,472	9,669	14,010	68,151

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	7	2,909	4	1	—	2,921	25	8	3,048
Natural Gas Liquids	7	2,909	4	1	—	2,921	25	8	3,048
Normal Butane	—	168	4	1	—	173	8	8	247
Isobutane	—	—	—	—	—	—	4	—	4
Natural Gasoline	7	2,741	—	—	—	2,748	13	—	2,797
Other Liquids	17,807	7,546	3,068	8,857	1,408	38,686	6,230	42,489	252,374
Oxygenates/Renewables	1,844	867	307	986	154	4,158	708	4,911	27,310
Biofuels (including Fuel Ethanol)	1,844	867	307	986	154	4,158	708	4,911	27,310
Fuel Ethanol	1,832	811	307	952	147	4,049	689	4,437	26,137
Biodiesel	12	56	—	34	7	109	19	364	1,063
Renewable Diesel Fuel	—	—	—	—	—	—	—	110	110
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Unfinished Oils (net)	11	—	—	—	—	11	—	—	11
Naphthas and Lighter	11	—	—	—	—	11	—	—	11
Kerosene and Light Gas Oils	—	—	—	—	—	—	—	—	—
Heavy Gas Oils	—	—	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)(net)	15,952	6,679	2,761	7,871	1,254	34,517	5,522	37,578	225,053
Reformulated - RBOB	6,496	5,772	—	10	—	12,278	—	26,773	71,154
Conventional	9,456	907	2,761	7,861	1,254	22,239	5,522	10,805	153,899
CBOB	9,456	-4,408	1,383	7,861	1,214	15,506	5,521	10,554	133,909
GTAB	—	—	—	—	—	—	—	—	2,712
Other	—	5,315	1,378	—	40	6,733	1	251	17,278
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—	—	—
Total Input	17,814	10,455	3,072	8,858	1,408	41,607	6,255	42,497	255,422

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, July 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	90,856	5,823	96,679	44,404	9,517	13,945	67,866
Reformulated	35,314	50	35,364	7,641	1,465	986	10,092
Reformulated Blended with Fuel Ethanol	35,311	50	35,361	7,641	1,464	986	10,091
Reformulated Other	3	-	3	-	1	-	1
Conventional	55,542	5,773	61,315	36,763	8,052	12,959	57,774
Conventional Blended with Fuel Ethanol	55,814	5,773	61,587	37,284	8,347	13,049	58,680
Ed55 and Lower	55,733	5,773	61,506	37,258	8,289	12,869	58,416
Greater than Ed55	81	-	81	26	58	180	264
Conventional Other	-272	-	-272	-521	-295	-90	-906
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-	0	-28	-2	-1	-31
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	182	45	227	95	152	56	303
15 ppm sulfur and under	186	45	231	95	152	58	305
Greater than 15 ppm to 500 ppm sulfur	3	-	3	-	-	104	104
Greater than 500 ppm sulfur	-7	-	-7	-	-	-106	-106
Residual Fuel Oil	7	-	7	-37	-	-	-37
Less than 0.31 percent sulfur	-	-	-	-	-	-	-
0.31 to 1.00 percent sulfur	-2	-	-2	-	-	-	-
Greater than 1.00 percent sulfur	9	-	9	-37	-	-	-37
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	37	2	5	44
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	91,045	5,868	96,913	44,471	9,669	14,005	68,145
Processing Gain(-) or Loss(+) ¹	-1	0	-1	1	0	5	6

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	17,802	10,399	3,070	8,823	1,397	41,491	6,233	42,033	254,302
Reformulated	7,140	6,876	-	-	-	14,016	-	29,990	89,462
Reformulated Blended with Fuel Ethanol	7,139	6,876	-	-	-	14,015	-	29,990	89,457
Reformulated Other	1	-	-	-	-	1	-	-	5
Conventional	10,662	3,523	3,070	8,823	1,397	27,475	6,233	12,043	164,840
Conventional Blended with Fuel Ethanol	10,853	1,038	3,049	9,342	1,448	25,730	6,596	13,774	166,367
Ed55 and Lower	10,841	1,037	3,049	9,314	1,447	25,688	6,561	13,766	165,937
Greater than Ed55	12	1	-	28	1	42	35	8	430
Conventional Other	-191	2,485	21	-519	-51	1,745	-363	-1,731	-1,527
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	23	9	-	0	32	77	13	91
Kerosene	-	-23	-	-	-	-23	-	1	-22
Distillate Fuel Oil	13	56	-8	37	11	109	-57	441	1,023
15 ppm sulfur and under	13	56	-8	37	11	109	-57	438	1,026
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	107
Greater than 500 ppm sulfur	-	-	-	-	-	-	-	3	-110
Residual Fuel Oil	-	-	-	-	-	-	-	0	-30
Less than 0.31 percent sulfur	-	-	-	-	-	-	-	-	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-	-1	-3
Greater than 1.00 percent sulfur	-	-	-	-	-	-	-	1	-27
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	-	-	-	-	-	44
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,815	10,455	3,071	8,860	1,408	41,609	6,253	42,488	255,408
Processing Gain(-) or Loss(+) ¹	-1	0	1	-2	0	-2	2	9	14

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	5,340	717	6,057	10,347	1,994	1,905	14,246
Petroleum Products	9,688	2,186	11,874	30,454	8,658	10,009	49,121
Hydrocarbon Gas Liquids	511	45	556	2,592	366	846	3,804
Natural Gas Liquids	309	45	354	2,151	343	826	3,320
Ethane	—	—	—	—	—	—	—
Propane	92	4	96	477	34	229	740
Normal Butane	182	30	212	1,263	266	171	1,700
Isobutane	35	11	46	279	43	171	493
Natural Gasoline	—	—	—	132	—	255	387
Refinery Olefins	202	0	202	441	23	20	484
Ethylene	—	—	—	—	—	—	—
Propylene	107	0	107	302	23	20	345
Normal Butylene	1	0	1	139	0	0	139
Isobutylene	94	0	94	0	0	0	0
Biofuels/Other Hydrocarbons	124	103	227	47	55	29	131
Biofuels (including Fuel Ethanol)	124	103	227	35	55	29	119
Fuel Ethanol	124	96	220	31	44	25	100
Biodiesel	—	7	7	4	11	4	19
Renewable Diesel Fuel	—	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	12	—	—	12
Unfinished Oils	3,081	363	3,444	9,060	893	3,838	13,791
Naphthas and Lighter	616	221	837	1,918	403	1,116	3,437
Kerosene and Light Gas Oils	376	—	376	1,668	354	373	2,395
Heavy Gas Oils	1,416	138	1,554	3,978	136	1,303	5,417
Residuum	673	4	677	1,496	—	1,046	2,542
Motor Gasoline Blending Components (MGBC)	2,887	295	3,182	8,180	2,067	2,337	12,584
Reformulated - RBOB	976	—	976	904	—	—	904
Conventional	1,911	295	2,206	7,276	2,067	2,337	11,680
CBOB	219	200	419	2,927	1,245	1,510	5,682
G TAB	—	—	—	—	—	—	—
Other	1,692	95	1,787	4,349	822	827	5,998
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	26	26	472	88	316	876
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	26	26	472	88	316	876
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	26	26	472	88	316	876
Finished Aviation Gasoline	—	—	—	—	40	—	40
Kerosene-Type Jet Fuel	498	—	498	1,438	243	255	1,936
Kerosene	73	4	77	80	—	11	91
Distillate Fuel Oil	1,448	243	1,691	3,448	1,056	1,598	6,102
15 ppm sulfur and under	1,232	168	1,400	3,274	971	1,490	5,735
Greater than 15 ppm to 500 ppm sulfur	36	55	91	—	—	48	48
Greater than 500 ppm sulfur	180	20	200	174	85	60	319
Residual Fuel Oil	295	16	311	689	215	90	994
Less than 0.31 percent sulfur	—	14	14	148	—	—	148
0.31 to 1.00 percent sulfur	93	2	95	144	64	28	236
Greater than 1.00 percent sulfur	202	—	202	397	151	62	610
Petrochemical Feedstocks	—	—	—	527	—	—	527
Naphtha for Petro. Feed. Use	—	—	—	419	—	—	419
Other Oils for Petro. Feed. Use	—	—	—	108	—	—	108
Special Naphthas	—	27	27	84	—	10	94
Lubricants	624	283	907	—	—	174	174
Waxes	—	181	181	—	—	57	57
Petroleum Coke	—	—	—	630	1,958	209	2,797
Marketable	—	—	—	630	1,958	209	2,797
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	135	536	671	3,107	1,648	231	4,986
Miscellaneous Products	12	64	76	100	29	8	137
Total Stocks, All Oils	15,028	2,903	17,931	40,801	10,652	11,914	63,367

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2022
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,906	26,603	15,789	1,138	215	45,651	2,510	22,771	91,235
Petroleum Products	11,463	61,029	42,046	3,915	1,116	119,569	9,982	47,823	238,369
Hydrocarbon Gas Liquids	3,446	2,257	1,317	17	104	7,141	442	1,521	13,464
Natural Gas Liquids	2,769	2,012	1,006	16	104	5,907	352	1,486	11,419
Ethane	20	—	—	—	—	20	—	—	20
Propane	531	551	70	2	4	1,158	47	95	2,136
Normal Butane	1,764	1,228	314	9	88	3,403	195	1,021	6,531
Isobutane	448	200	338	5	12	1,003	105	367	2,014
Natural Gasoline	6	33	284	—	—	323	5	3	718
Refinery Olefins	677	245	311	1	0	1,234	90	35	2,045
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	650	51	64	1	0	766	1	10	1,229
Normal Butylene	27	193	234	0	0	454	89	25	708
Isobutylene	0	1	13	0	0	14	0	0	108
Biofuels/Other Hydrocarbons	41	777	157	31	4	1,010	140	971	2,479
Biofuels (including Fuel Ethanol)	41	777	157	31	4	1,010	140	971	2,467
Fuel Ethanol	30	757	93	24	3	907	132	202	1,561
Biodiesel	11	20	64	7	1	103	8	8	145
Renewable Diesel Fuel	—	—	—	—	—	—	—	761	761
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	12
Unfinished Oils	2,907	22,111	14,791	889	483	41,181	2,847	17,419	78,682
Naphthas and Lighter	1,048	5,811	1,577	237	125	8,798	620	3,059	16,751
Kerosene and Light Gas Oils	458	3,838	2,270	209	130	6,905	637	2,911	13,224
Heavy Gas Oils	823	9,385	8,404	385	228	19,225	1,171	8,221	35,588
Residuum	578	3,077	2,540	58	—	6,253	419	3,228	13,119
Motor Gasoline Blending Components (MGBC)	2,567	13,523	11,214	317	267	27,888	2,707	13,286	59,647
Reformulated - RBOB	140	1,607	832	—	26	2,605	—	4,721	9,206
Conventional	2,427	11,916	10,382	317	241	25,283	2,707	8,565	50,441
CBOB	1,285	3,477	5,391	247	62	10,462	1,415	2,613	20,591
GTAB	—	—	—	—	—	—	—	—	—
Other	1,142	8,439	4,991	70	179	14,821	1,292	5,952	29,850
Aviation Gasoline Blending Components	23	—	23	—	—	46	—	—	46
Finished Motor Gasoline	108	1,843	721	57	—	2,729	661	765	5,057
Reformulated	—	—	—	—	—	—	—	18	18
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	18	18
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	108	1,843	721	57	—	2,729	661	747	5,039
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	54	—	54
Ed55 and Lower	—	—	—	—	—	—	54	—	54
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	108	1,843	721	57	—	2,729	607	747	4,985
Finished Aviation Gasoline	45	253	112	—	—	410	8	81	539
Kerosene-Type Jet Fuel	343	2,940	1,938	91	—	5,312	280	3,656	11,682
Kerosene	18	—	88	2	—	108	2	1	279
Distillate Fuel Oil	1,013	7,641	5,911	548	75	15,188	1,646	4,914	29,541
15 ppm sulfur and under	937	6,237	4,553	375	75	12,177	1,481	4,297	25,090
Greater than 15 ppm to 500 ppm sulfur	76	110	555	45	—	786	115	225	1,265
Greater than 500 ppm sulfur	—	1,294	803	128	—	2,225	50	392	3,186
Residual Fuel Oil	144	2,152	1,356	17	42	3,711	225	2,261	7,502
Less than 0.31 percent sulfur	23	—	50	—	—	73	28	34	297
0.31 to 1.00 percent sulfur	62	780	312	17	—	1,171	37	326	1,865
Greater than 1.00 percent sulfur	59	1,372	994	—	42	2,467	160	1,901	5,340
Petrochemical Feedstocks	56	1,528	507	4	—	2,095	—	2	2,624
Naphtha for Petro. Feed. Use	22	948	482	4	—	1,456	—	2	1,877
Other Oils for Petro. Feed. Use	34	580	25	—	—	639	—	—	747
Special Naphthas	87	580	—	172	—	839	—	26	986
Lubricants	63	2,148	1,986	866	—	5,063	—	529	6,673
Waxes	—	95	91	83	—	269	—	—	507
Petroleum Coke	21	2,712	1,250	—	—	3,983	174	1,538	8,492
Marketable	21	2,712	1,250	—	—	3,983	174	1,538	8,492
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	442	218	479	820	112	2,071	828	773	9,329
Miscellaneous Products	139	251	105	1	29	525	22	80	840
Total Stocks, All Oils	13,369	87,632	57,835	5,053	1,331	165,220	12,492	70,594	329,604

-- = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, July 2022

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	4.3	3.3	4.2	5.9	3.5	3.0	4.9
Finished Motor Gasoline ¹	46.1	35.9	45.0	49.6	46.7	49.0	49.1
Finished Aviation Gasoline ²	—	—	—	—	0.2	—	0.0
Kerosene-Type Jet Fuel	13.0	—	11.6	9.0	6.3	3.6	7.5
Kerosene	0.2	0.1	0.2	0.1	—	0.0	0.1
Distillate Fuel Oil ³	25.6	22.5	25.3	24.9	32.6	38.2	28.8
Residual Fuel Oil	5.6	—	5.0	1.0	1.3	0.5	0.9
Naphtha for Petro. Feed. Use	—	—	—	0.6	—	—	0.4
Other Oils for Petro. Feed. Use	—	—	—	0.4	—	—	0.3
Special Naphthas	—	0.7	0.1	0.0	—	0.0	0.0
Lubricants	1.0	6.7	1.6	—	—	1.0	0.2
Waxes	—	-0.3	0.0	—	—	0.2	0.0
Petroleum Coke	3.0	0.7	2.8	4.9	6.1	3.5	4.7
Asphalt and Road Oil	1.7	24.7	4.2	5.3	5.8	1.3	4.5
Still Gas	3.6	1.9	3.4	3.4	4.1	4.0	3.7
Miscellaneous Products	0.3	1.9	0.4	0.4	0.8	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-4.4	1.9	-3.7	-5.5	-7.4	-4.4	-5.5

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	5.1	6.4	5.1	1.0	1.7	5.6	3.1	3.5	5.0
Finished Motor Gasoline ¹	51.5	42.5	42.1	29.0	53.1	42.7	46.5	49.1	45.3
Finished Aviation Gasoline ²	0.4	0.1	0.1	—	—	0.1	0.1	—	0.1
Kerosene-Type Jet Fuel	7.1	10.0	10.3	1.5	—	9.6	5.8	18.4	10.2
Kerosene	0.0	0.1	0.0	0.0	—	0.1	—	0.0	0.1
Distillate Fuel Oil ³	30.6	31.9	34.5	36.3	40.8	33.0	33.8	20.4	30.0
Residual Fuel Oil	1.4	1.0	0.5	-0.4	0.6	0.8	1.8	2.5	1.3
Naphtha for Petro. Feed. Use	0.2	1.4	1.3	—	—	1.2	—	—	0.8
Other Oils for Petro. Feed. Use	0.0	1.2	1.4	—	—	1.2	—	—	0.7
Special Naphthas	0.3	0.5	—	2.8	—	0.4	—	0.0	0.2
Lubricants	0.1	1.1	1.6	10.6	—	1.5	—	0.2	1.0
Waxes	—	0.0	0.1	0.3	—	0.1	—	—	0.0
Petroleum Coke	2.3	5.8	5.1	1.3	0.7	5.1	3.6	5.8	4.9
Asphalt and Road Oil	1.0	0.3	0.8	15.6	1.9	1.0	5.6	1.4	2.2
Still Gas	3.9	4.7	3.7	3.8	2.0	4.2	3.7	5.4	4.2
Miscellaneous Products	0.7	0.7	0.5	0.2	1.6	0.6	0.7	0.5	0.6
Processing Gain(-) or Loss(+) ⁴	-4.7	-7.7	-6.9	-2.2	-2.2	-7.0	-4.5	-7.1	-6.4

— = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas liquids, fuel ethanol, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, renewable diesel fuel, and other biofuels.

⁴ Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, July 2022
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil		
	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	160	1,582	1,742
Connecticut	—	—	—
Delaware	—	—	—
Florida	160	824	984
Georgia	—	—	—
Maine	—	—	—
Maryland	—	—	—
Massachusetts	—	—	—
New Hampshire	—	—	—
New Jersey	—	758	758
New York	—	—	—
North Carolina	—	—	—
Pennsylvania	—	—	—
Rhode Island	—	—	—
South Carolina	—	—	—
Vermont	—	—	—
Virginia	—	—	—
West Virginia	—	—	—
PAD District 2	5	129	134
Illinois	—	—	—
Indiana	—	—	—
Michigan	—	32	32
Minnesota	—	29	29
North Dakota	5	68	73
Ohio	—	—	—
Wisconsin	—	—	—
PAD District 3	313	2,453	2,766
Alabama	—	—	—
Louisiana	155	802	957
Mississippi	—	281	281
New Mexico	—	—	—
Texas	158	1,370	1,528
PAD District 4	—	—	—
Idaho	—	—	—
Montana	—	—	—
PAD District 5	39	265	304
Alaska	—	—	—
California	—	265	265
Hawaii	—	—	—
Oregon	—	—	—
Washington	39	—	39
U.S. Total	517	4,429	4,946

— = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, July 2022
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	20,972	73,932	61,989	9,273	38,553	204,719	6,604
Hydrocarbon Gas Liquids	612	2,188	—	297	1,223	4,320	139
Natural Gas Liquids	283	1,986	—	297	1,223	3,789	122
Ethane	—	—	—	—	—	—	—
Propane	279	1,183	—	297	906	2,665	86
Normal Butane	—	622	—	—	317	939	30
Isobutane	4	175	—	—	—	179	6
Natural Gasoline	—	6	—	—	—	6	0
Refinery Olefins	329	202	—	—	—	531	17
Ethylene	—	—	—	—	—	—	—
Propylene	329	100	—	—	—	429	14
Normal Butylene	—	102	—	—	—	102	3
Isobutylene	—	—	—	—	—	—	—
Other Liquids	14,049	579	18,107	107	4,370	37,212	1,200
Hydrogen/Biofuels/Other Hydrocarbons	16	97	16	4	760	893	29
Hydrogen	—	—	—	—	—	—	—
Biofuels (including Fuel Ethanol)	16	97	—	4	760	877	28
Fuel Ethanol	—	—	—	—	—	—	—
Biodiesel	16	97	—	4	167	284	9
Renewable Diesel Fuel	—	—	—	—	593	593	19
Other Biofuels ³	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	16	—	—	16	1
Unfinished Oils ¹	888	—	15,849	—	2,517	19,254	621
Naphthas and Lighter	305	—	—	—	—	305	10
Kerosene and Lighter Gas Oils	—	—	34	—	—	34	1
Heavy Gas Oils	583	—	10,731	—	2,315	13,629	440
Residuum	—	—	5,084	—	202	5,286	171
Motor Gasoline Blend.Comp. (MGBC)	13,145	482	2,242	103	1,093	17,065	550
Reformulated - RBOB	2,721	—	—	—	—	2,721	88
Conventional	10,424	482	2,242	103	1,093	14,344	463
CBOB	1,866	141	—	—	295	2,302	74
GTAB	2,456	—	—	—	—	2,456	79
Other	6,102	341	2,242	103	798	9,586	309
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	11,565	1,389	5,470	345	5,434	24,203	781
Finished Motor Gasoline	3,336	—	—	—	709	4,045	130
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	3,336	—	—	—	709	4,045	130
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	3,336	—	—	—	709	4,045	130
Finished Aviation Gasoline	1	7	—	—	7	15	0
Kerosene-Type Jet Fuel	641	—	—	65	3,640	4,346	140
Bonded Aircraft Fuel	212	—	—	—	751	963	31
Other	429	—	—	65	2,889	3,383	109
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	4,022	371	25	204	627	5,249	169
15 ppm sulfur and under	4,021	337	—	204	627	5,189	167
Bonded	1	—	—	—	—	1	0
Other	4,020	337	—	204	627	5,188	167
Greater than 15 ppm to 500 ppm sulfur	1	—	25	—	—	26	1
Bonded	—	—	—	—	—	—	—
Other	1	—	25	—	—	26	1
Greater than 500 ppm to 2000 ppm sulfur	—	34	—	—	—	34	1
Bonded	—	—	—	—	—	—	—
Other	—	34	—	—	—	34	1
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	1,742	134	2,766	—	304	4,946	160
Less than 0.31 percent sulfur	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	160	5	313	—	39	517	17
Greater than 1.00 percent sulfur	1,582	129	2,453	—	265	4,429	143
Petrochemical Feedstocks	64	164	366	—	—	594	19
Naphtha for Petro. Feed. Use	63	95	303	—	—	461	15
Other Oils for Petro. Feed. Use	1	69	63	—	—	133	4
Special Naphthas	1	8	444	—	—	453	15
Lubricants	86	194	1,370	—	71	1,721	56
Waxes	117	15	70	—	6	208	7
Petroleum Coke (Marketable)	—	19	429	—	—	448	14
Asphalt and Road Oil	1,555	477	—	75	70	2,177	70
Miscellaneous Products	—	—	—	1	—	1	0
Total	47,198	78,088	85,566	10,022	49,580	270,454	8,724

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-July 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	125,566	545,740	361,129	60,022	248,358	1,340,815	6,325
Hydrocarbon Gas Liquids	9,873	14,846	42	2,586	9,361	36,708	173
Natural Gas Liquids	7,681	13,573	17	2,586	9,361	33,218	157
Ethane	—	—	—	—	—	—	—
Propane	7,250	9,237	16	2,443	5,519	24,465	115
Normal Butane	287	2,888	—	139	3,842	7,156	34
Isobutane	144	1,413	—	4	—	1,561	7
Natural Gasoline	—	35	1	—	—	36	0
Refinery Olefins	2,192	1,273	25	—	—	3,490	16
Ethylene	—	—	—	—	—	—	—
Propylene	2,192	804	—	—	—	2,996	14
Normal Butylene	—	469	25	—	—	494	2
Isobutylene	—	—	—	—	—	—	—
Other Liquids	106,004	3,626	102,308	847	27,591	240,376	1,134
Hydrogen/Biofuels/Other Hydrocarbons	1,271	474	493	62	4,800	7,100	33
Hydrogen	—	—	—	—	—	—	—
Biofuels (including Fuel Ethanol)	1,271	474	428	62	4,800	7,035	33
Fuel Ethanol	—	—	—	7	500	507	2
Biodiesel	1,271	474	378	55	584	2,762	13
Renewable Diesel Fuel	—	—	—	—	3,716	3,716	18
Other Biofuels ³	—	—	50	—	—	50	0
Other Hydrocarbons	—	—	65	—	—	65	0
Unfinished Oils ¹	8,805	—	90,765	345	14,058	113,973	538
Naphthas and Lighter	1,752	—	90	—	199	2,041	10
Kerosene and Lighter Gas Oils	—	—	122	46	—	168	1
Heavy Gas Oils	7,053	—	45,252	299	13,657	66,261	313
Residuum	—	—	45,301	—	202	45,503	215
Motor Gasoline Blend.Comp. (MGBC)	95,928	3,152	11,050	440	8,733	119,303	563
Reformulated - RBOB	32,484	—	—	—	1,289	33,773	159
Conventional	63,444	3,152	11,050	440	7,444	85,530	403
CBOB	11,117	815	—	—	631	12,563	59
GTAB	17,849	—	61	—	—	17,910	84
Other	34,478	2,337	10,989	440	6,813	55,057	260
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	77,083	9,338	46,128	2,256	33,722	168,527	795
Finished Motor Gasoline	15,785	—	179	20	5,544	21,528	102
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	15,785	—	179	20	5,544	21,528	102
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	15,785	—	179	20	5,544	21,528	102
Finished Aviation Gasoline	92	31	80	3	16	222	1
Kerosene-Type Jet Fuel	6,091	34	—	284	20,130	26,539	125
Bonded Aircraft Fuel	802	—	—	—	3,476	4,278	20
Other	5,289	34	—	284	16,654	22,261	105
Kerosene	—	—	—	—	18	18	0
Distillate Fuel Oil	34,213	1,994	271	1,368	4,857	42,703	201
15 ppm sulfur and under	34,100	1,834	136	1,365	3,720	41,155	194
Bonded	1	—	—	—	—	1	0
Other	34,099	1,834	136	1,365	3,720	41,154	194
Greater than 15 ppm to 500 ppm sulfur	51	37	25	—	946	1,059	5
Bonded	—	—	—	—	—	—	—
Other	51	37	25	—	946	1,059	5
Greater than 500 ppm to 2000 ppm sulfur	62	123	110	3	1	299	1
Bonded	—	—	—	—	—	—	—
Other	62	123	110	3	1	299	1
Greater than 2000 ppm	—	—	—	—	190	190	1
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	190	190	1
Residual Fuel Oil	12,187	874	32,531	—	2,052	47,644	225
Less than 0.31 percent sulfur	—	—	880	—	—	880	4
0.31 to 1.00 percent sulfur	3,226	79	2,021	—	1,071	6,397	30
Greater than 1.00 percent sulfur	8,961	795	29,630	—	981	40,367	190
Petrochemical Feedstocks	412	1,087	1,600	—	210	3,309	16
Naphtha for Petro. Feed. Use	405	624	1,353	—	210	2,592	12
Other Oils for Petro. Feed. Use	7	463	247	—	—	717	3
Special Naphthas	112	50	1,903	—	—	2,065	10
Lubricants	879	1,508	7,253	—	252	9,892	47
Waxes	672	102	255	—	244	1,273	6
Petroleum Coke (Marketable)	10	146	1,997	—	—	2,153	10
Asphalt and Road Oil	6,630	3,512	59	574	399	11,174	53
Miscellaneous Products	—	—	—	7	—	7	0
Total	318,526	573,550	509,607	65,711	319,032	1,786,426	8,427

-- = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	35,377	53	—	8,977	—	—	—	282	1,084	1,366
Algeria	1,581	—	—	1,704	—	—	—	—	—	—
Angola	1,374	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	53	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	11,949	—	—	4,662	—	—	—	—	—	—
Kuwait	702	—	—	19	—	—	—	—	—	—
Libya	1,662	—	—	—	—	—	—	—	—	—
Nigeria	2,905	—	—	—	—	—	—	—	279	279
Saudi Arabia	14,207	—	—	1,815	—	—	—	—	584	584
United Arab Emirates	997	—	—	777	—	—	—	282	221	503
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	169,342	3,736	531	10,277	—	4,045	4,045	2,439	13,260	15,699
Argentina	2,246	—	—	—	—	—	—	—	372	372
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	700	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	249	249	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	353	—	964	964	—	36	36
Brazil	6,429	—	—	703	—	—	—	—	676	676
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	116,791	3,729	531	1,343	—	420	420	1,361	2,201	3,562
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	8,392	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	3,866	—	—	380	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	41	41	—	8	8
France	—	—	—	—	—	728	728	—	257	257
Germany	—	—	—	14	—	3	3	—	65	65
Guatemala	294	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	2,292	2,292
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	887	—	210	210	—	150	150
Korea, South	—	1	—	—	—	323	323	—	764	764
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	548	—	—	—	—	161	161
Mexico	22,844	—	—	2,282	—	—	—	—	—	—
Netherlands	—	—	—	1,167	—	289	289	310	755	1,065
Norway	651	—	—	—	—	229	229	—	476	476
Oman	—	—	—	—	—	—	—	—	50	50
Portugal	—	—	—	—	—	—	—	—	838	838
Qatar	—	—	—	566	—	—	—	—	4	4
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	348	—	—	—	—	1,005	1,005
Sweden	—	—	—	—	—	46	46	—	441	441
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	885	6	—	—	—	—	—	—	—	—
United Kingdom	1,366	—	—	1	—	226	226	768	381	1,149
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	4,878	0	0	1,685	—	317	317	0	2,328	2,328
Total	204,719	3,789	531	19,254	—	4,045	4,045	2,721	14,344	17,065
Persian Gulf⁴	27,855	—	—	7,839	—	—	—	282	809	1,091

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	284	593	—	5,189	26	34	—	5,249	—	15
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	25	—	—	25	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	241	—	—	4,858	1	34	—	4,893	—	9
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	1	—	—	—	1	—	—
Colombia	—	—	—	—	285	—	—	—	285	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	43	—	—	45	—	—	—	45	—	6
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	0	593	—	0	0	0	—	0	—	0
Total	—	284	593	—	5,189	26	34	—	5,249	—	15
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	168	168	—	—
Algeria	—	—	—	—	—	5	5	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	163	163	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	4,346	453	—	517	4,261	4,778	461	133
Argentina	—	—	—	—	—	—	—	—	23
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	322	322	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	414	245	—	199	485	684	96	97
Chad	—	—	—	—	—	—	—	—	—
China	—	314	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	531	531	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	130	130	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	62	13
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	2,461	208	—	—	—	—	106	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	2,243	2,243	105	—
Netherlands	—	—	—	—	—	101	101	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	158	—	158	23	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	1,157	0	—	160	449	609	69	0
Total	—	4,346	453	—	517	4,429	4,946	461	133
Persian Gulf¹	—	—	—	—	—	163	163	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	287	—	10,851	46,228	1,141	350	1,491
Algeria	—	—	—	—	—	1,709	3,290	51	55	106
Angola	—	—	—	—	—	—	1,374	44	—	44
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	53	53	—	2	2
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	4,662	16,611	385	150	536
Kuwait	—	—	—	—	—	19	721	23	1	23
Libya	—	—	—	—	—	—	1,662	54	—	54
Nigeria	—	—	—	—	—	279	3,184	94	9	103
Saudi Arabia	—	—	—	—	—	2,562	16,769	458	83	541
United Arab Emirates	—	—	—	287	—	1,567	2,564	32	51	83
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	208	448	2,177	1,434	1	54,884	224,226	5,463	1,770	7,233
Argentina	—	204	—	4	—	603	2,849	72	19	92
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	700	23	—	23
Bahamas	—	—	—	—	—	249	249	—	8	8
Bahrain	—	—	—	64	—	64	64	—	2	2
Belgium	—	—	—	2	—	1,355	1,355	—	44	44
Brazil	—	225	—	—	—	1,967	8,396	207	63	271
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	105	18	2,007	259	1	18,654	135,445	3,767	602	4,369
Chad	—	—	—	—	—	—	—	—	—	—
China	25	—	—	—	—	340	340	—	11	11
Colombia	—	—	43	—	—	859	9,251	271	28	298
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	510	4,376	125	16	141
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	49	49	—	2	2
France	—	—	—	17	—	1,077	1,077	—	35	35
Germany	—	—	—	14	—	96	96	—	3	3
Guatemala	—	—	—	—	—	—	294	9	—	9
India	—	—	—	2	—	2,294	2,294	—	74	74
Indonesia	—	—	—	169	—	169	169	—	5	5
Italy	—	—	61	13	—	1,321	1,321	—	43	43
Korea, South	1	—	—	403	—	4,361	4,361	—	141	141
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	45	—	—	—	—	754	754	—	24	24
Mexico	—	—	—	—	—	4,630	27,474	737	149	886
Netherlands	—	—	—	—	—	2,622	2,622	—	85	85
Norway	—	—	—	—	—	705	1,356	21	23	44
Oman	—	—	—	—	—	50	50	—	2	2
Portugal	—	—	—	—	—	838	838	—	27	27
Qatar	—	—	—	413	—	983	983	—	32	32
Russia	—	—	—	—	—	—	—	—	—	—
Spain	1	—	9	—	—	1,363	1,363	—	44	44
Sweden	—	1	—	—	—	488	488	—	16	16
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	6	891	29	0	29
United Kingdom	—	—	—	—	—	1,557	2,923	44	50	94
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	31	0	57	74	0	6,920	11,798	158	222	379
Total	208	448	2,177	1,721	1	65,735	270,454	6,604	2,120	8,724
Persian Gulf⁴	—	—	—	764	—	9,857	37,712	899	318	1,217

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	209,200	1,111	-	37,717	-	722	722	1,362	7,093	8,455
Algeria	1,581	506	-	8,356	-	-	-	-	-	-
Angola	9,000	16	-	-	-	18	18	-	630	630
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	479	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	507	-	-	-	-	-	-	-	-	-
Iraq	53,050	-	-	11,471	-	-	-	-	-	-
Kuwait	5,187	-	-	2,311	-	-	-	-	-	17
Libya	15,801	-	-	46	-	-	-	-	-	-
Nigeria	19,421	110	-	428	-	-	-	-	1,282	1,282
Saudi Arabia	100,998	-	-	11,702	-	704	704	1,063	4,960	6,023
United Arab Emirates	3,655	-	-	3,403	-	-	-	282	221	503
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	1,131,615	32,107	3,490	76,256	-	20,806	20,806	32,411	78,437	110,848
Argentina	12,234	-	-	-	-	16	16	-	1,234	1,234
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	700	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	1,819	1,819	-	1,081	1,081
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	353	-	2,426	2,426	521	1,181	1,702
Brazil	27,534	-	-	1,931	-	-	-	-	1,446	1,446
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	810,129	31,747	3,465	4,514	-	2,798	2,798	15,388	11,324	26,712
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	50,320	-	-	725	-	-	-	-	14	14
Denmark	-	-	-	-	-	-	-	4	107	111
Ecuador	26,847	-	-	3,891	-	-	-	-	-	-
Egypt	-	-	-	1,366	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	100	-	41	41	-	4,522	4,522
France	-	-	-	1,591	-	1,640	1,640	1,029	2,188	3,217
Germany	-	1	-	83	-	333	333	-	567	567
Guatemala	589	-	-	-	-	-	-	-	-	-
India	-	-	-	516	-	297	297	342	14,771	15,113
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	1,578	-	1,623	1,623	-	3,917	3,917
Korea, South	-	6	-	-	-	3,086	3,086	-	2,398	2,398
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	676	676	-	650	650
Malaysia	-	-	-	548	-	-	-	-	161	161
Mexico	139,821	-	25	14,367	-	-	-	-	731	731
Netherlands	-	-	-	1,753	-	2,158	2,158	6,478	4,362	10,840
Norway	5,460	196	-	-	-	278	278	807	1,620	2,427
Oman	-	-	-	-	-	-	-	-	208	208
Portugal	-	-	-	-	-	348	348	3	4,219	4,222
Qatar	-	-	-	566	-	8	8	8	12	20
Russia	7,390	-	-	35,999	-	331	331	-	2,302	2,302
Spain	-	-	-	348	-	1,065	1,065	111	6,151	6,262
Sweden	-	-	-	-	-	230	230	-	1,552	1,552
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	8,727	157	-	-	-	39	39	-	-	-
United Kingdom	6,699	-	-	297	-	1,157	1,157	7,598	3,181	10,779
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	35,165	0	0	5,730	-	437	437	122	8,538	8,660
Total	1,340,815	33,218	3,490	113,973	-	21,528	21,528	33,773	85,530	119,303
Persian Gulf⁴	163,397	-	-	29,453	-	712	712	1,370	5,193	6,563

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	3,110	—	—	—	3,110	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	645	—	—	—	645	—	—
Saudi Arabia	—	—	—	—	2,417	—	—	—	2,417	—	—
United Arab Emirates	—	—	—	—	48	—	—	—	48	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	507	2,762	3,716	50	38,045	1,059	299	190	39,593	18	222
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	776	—	62	—	838	—	—
Brazil	500	—	—	—	—	25	—	—	25	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	7	1,276	—	—	27,880	88	127	—	28,095	—	44
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	1	—	—	—	1	—	—
Colombia	—	—	—	—	407	—	—	—	407	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	190	190	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	49
Finland	—	—	—	50	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	783	—	—	20	—	—	—	20	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	117	—	—	—	—	—	—	—	—	—
Korea, South	—	153	—	—	594	946	—	—	1,540	18	13
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	49	—	2,850	—	—	—	2,850	—	116
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	256	—	—	—	256	—	—
Qatar	—	—	—	—	3,004	—	—	—	3,004	—	—
Russia	—	—	—	—	2,157	—	110	—	2,267	—	—
Spain	—	433	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	3,667	0	100	0	0	0	100	0	0
Total	507	2,762	3,716	50	41,155	1,059	299	190	42,703	18	222
Persian Gulf⁴	—	—	—	—	5,469	—	—	—	5,469	—	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	1,851	—	880	62	1,958	2,900	70	—
Algeria	—	—	—	880	—	5	885	—	—
Angola	—	—	—	—	—	—	—	70	—
Congo (Brazzaville)	—	—	—	—	62	30	92	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	574	574	—	—
Kuwait	—	1,180	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	396	—	—	—	1,345	1,345	—	—
United Arab Emirates	—	275	—	—	—	4	4	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	24,688	2,065	—	6,335	38,409	44,744	2,522	717
Argentina	—	—	—	—	—	1	1	—	98
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	32	829	861	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	268	268	—	—
Brazil	—	—	—	—	92	4,227	4,319	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	2,505	822	—	796	3,046	3,842	649	547
Chad	—	—	—	—	—	—	—	—	—
China	—	933	—	—	—	—	—	—	—
Colombia	—	—	—	—	225	2,858	3,083	—	—
Denmark	—	—	—	—	68	—	68	—	—
Ecuador	—	—	—	—	100	561	661	—	—
Egypt	—	—	—	—	27	—	27	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	102	102	69	62
Germany	—	—	15	—	272	14	286	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	578	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	61	61	—	—
Korea, South	—	14,900	997	—	—	—	—	134	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,119	1,119	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	10	37	—	616	19,463	20,079	614	—
Netherlands	—	—	9	—	366	693	1,059	—	—
Norway	—	—	—	—	361	—	361	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	442	—	—	—	—	—	9	—
Russia	—	—	—	—	1,097	4,388	5,485	—	—
Spain	—	—	1	—	683	8	691	25	—
Sweden	—	—	—	—	111	—	111	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	409	11	420	47	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	5,320	184	0	1,080	760	1,840	975	0
Total	—	26,539	2,065	880	6,397	40,367	47,644	2,592	717
Persian Gulf¹	—	2,293	—	—	—	1,923	1,923	9	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	1,301	—	57,237	266,437	987	270	1,257
Algeria	—	—	—	—	—	9,747	11,328	7	46	53
Angola	—	—	—	—	—	734	9,734	42	3	46
Congo (Brazzaville)	—	—	—	—	—	92	92	—	0	0
Equatorial Guinea	—	—	—	—	—	479	479	—	2	2
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	507	2	—	2
Iraq	—	—	—	—	—	12,045	65,095	250	57	307
Kuwait	—	—	—	—	—	3,508	8,695	24	17	41
Libya	—	—	—	—	—	46	15,847	75	0	75
Nigeria	—	—	—	—	—	2,465	21,886	92	12	103
Saudi Arabia	—	—	—	29	—	22,616	123,614	476	107	583
United Arab Emirates	—	—	—	1,272	—	5,505	9,160	17	26	43
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,273	2,153	11,174	8,591	7	388,374	1,519,989	5,338	1,832	7,170
Argentina	—	726	—	30	—	2,105	14,339	58	10	68
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	700	3	—	3
Bahamas	—	—	—	—	—	3,761	3,761	—	18	18
Bahrain	—	—	—	475	—	475	475	—	2	2
Belgium	—	—	—	24	—	5,611	5,611	—	26	26
Brazil	—	1,074	—	—	—	9,348	36,882	130	44	174
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	682	144	10,674	2,034	7	120,564	930,693	3,821	569	4,390
Chad	—	—	—	—	—	—	—	—	—	—
China	155	—	—	—	—	1,089	1,089	—	5	5
Colombia	—	—	159	—	—	4,388	54,708	237	21	258
Denmark	—	—	—	—	—	179	179	—	1	1
Ecuador	—	—	—	—	—	4,742	31,589	127	22	149
Egypt	—	—	—	—	—	1,393	1,393	—	7	7
Estonia	—	—	—	—	—	49	49	—	0	0
Finland	—	—	—	—	—	4,713	4,713	—	22	22
France	—	—	—	75	—	6,756	6,756	—	32	32
Germany	—	139	—	82	—	2,309	2,309	—	11	11
Guatemala	—	—	—	—	—	—	589	3	—	3
India	—	—	—	5	—	16,509	16,509	—	78	78
Indonesia	—	—	—	725	—	725	725	—	3	3
Italy	—	—	98	76	—	7,470	7,470	—	35	35
Korea, South	5	—	—	2,412	—	25,662	25,662	—	121	121
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	2,445	2,445	—	12	12
Malaysia	135	—	—	—	—	844	844	—	4	4
Mexico	4	—	—	—	—	35,867	175,688	660	169	829
Netherlands	—	—	—	407	—	19,241	19,241	—	91	91
Norway	—	—	—	—	—	3,262	8,722	26	15	41
Oman	—	—	—	65	—	273	273	—	1	1
Portugal	—	—	—	—	—	4,826	4,826	—	23	23
Qatar	—	—	—	2,074	—	6,123	6,123	—	29	29
Russia	—	—	—	5	—	46,389	53,779	35	219	254
Spain	8	—	128	—	—	8,961	8,961	—	42	42
Sweden	—	2	—	3	—	1,898	1,898	—	9	9
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	196	8,923	41	1	42
United Kingdom	52	27	—	—	—	12,789	19,488	32	60	92
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	232	41	115	99	0	27,412	62,577	165	130	295
Total	1,273	2,153	11,174	9,892	7	445,611	1,786,426	6,325	2,102	8,427
Persian Gulf⁴	—	—	—	3,850	—	50,272	213,669	771	237	1,008

— = Not Applicable.
 — = No Data Reported.
¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
² Includes crude oil imported for storage in the Strategic Petroleum Reserve.
³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.
⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
 Note: Totals may not equal sum of components due to independent rounding.
 Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	9,110	—	—	346	—	—	—	282	802	1,084
Algeria	1,581	—	—	—	—	—	—	—	—	—
Angola	1,374	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	346	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	634	—	—	—	—	—	—	—	—	—
Nigeria	2,905	—	—	—	—	—	—	—	279	279
Saudi Arabia	2,616	—	—	—	—	—	—	—	302	302
United Arab Emirates	—	—	—	—	—	—	—	282	221	503
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	11,862	283	329	542	—	3,336	3,336	2,439	9,622	12,061
Argentina	476	—	—	—	—	—	—	—	372	372
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	249	249	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	964	964	—	36	36
Brazil	—	—	—	—	—	—	—	—	620	620
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	5,410	283	329	—	—	351	351	1,361	1,586	2,947
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	41	41	—	8	8
France	—	—	—	—	—	728	728	—	257	257
Germany	—	—	—	—	—	3	3	—	65	65
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	1,565	1,565
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	210	210	—	150	150
Korea, South	—	—	—	—	—	—	—	—	324	324
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	161	161
Mexico	2,478	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	124	—	289	289	310	697	1,007
Norway	651	—	—	—	—	229	229	—	476	476
Oman	—	—	—	—	—	—	—	—	50	50
Portugal	—	—	—	—	—	—	—	—	838	838
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	180	—	—	—	—	976	976
Sweden	—	—	—	—	—	46	46	—	348	348
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	1	—	226	226	768	86	854
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	2,847	0	0	237	—	0	0	0	1,007	1,007
Total	20,972	283	329	888	—	3,336	3,336	2,721	10,424	13,145
Persian Gulf⁴	2,616	—	—	346	—	—	—	282	523	805

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	16	-	-	4,021	1	-	-	4,022	-	1
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	16	-	-	3,735	1	-	-	3,736	-	1
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	1	-	-	-	1	-	-
Colombia	-	-	-	-	285	-	-	-	285	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	-	-	0	-	0
Total	-	16	-	-	4,021	1	-	-	4,022	-	1
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	5	5	—	—
Algeria	—	—	—	—	—	5	5	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	641	1	—	160	1,577	1,737	63	1
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	329	1	—	—	81	81	1	1
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	531	531	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	130	130	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	62	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	312	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	475	475	—	—
Netherlands	—	—	—	—	—	101	101	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	0	—	160	259	419	0	0
Total	—	641	1	—	160	1,582	1,742	63	1
Persian Gulf¹	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	1,435	10,545	294	46	340
Algeria	—	—	—	—	—	5	1,586	51	0	51
Angola	—	—	—	—	—	—	1,374	44	—	44
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	346	346	—	11	11
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	634	20	—	20
Nigeria	—	—	—	—	—	279	3,184	94	9	103
Saudi Arabia	—	—	—	—	—	302	2,918	84	10	94
United Arab Emirates	—	—	—	—	—	503	503	—	16	16
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	117	—	1,555	86	—	24,791	36,653	383	800	1,182
Argentina	—	—	—	—	—	372	848	15	12	27
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	249	249	—	8	8
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1	—	1,001	1,001	—	32	32
Brazil	—	—	—	—	—	620	620	—	20	20
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	90	—	1,385	59	—	9,610	15,020	175	310	485
Chad	—	—	—	—	—	—	—	—	—	—
China	25	—	—	—	—	26	26	—	1	1
Colombia	—	—	43	—	—	859	859	—	28	28
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	130	130	—	4	4
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	49	49	—	2	2
France	—	—	—	12	—	1,059	1,059	—	34	34
Germany	—	—	—	11	—	79	79	—	3	3
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	1,565	1,565	—	50	50
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	61	3	—	424	424	—	14	14
Korea, South	1	—	—	—	—	637	637	—	21	21
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	161	161	—	5	5
Mexico	—	—	—	—	—	475	2,953	80	15	95
Netherlands	—	—	—	—	—	1,521	1,521	—	49	49
Norway	—	—	—	—	—	705	1,356	21	23	44
Oman	—	—	—	—	—	50	50	—	2	2
Portugal	—	—	—	—	—	838	838	—	27	27
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	1	—	9	—	—	1,166	1,166	—	38	38
Sweden	—	—	—	—	—	394	394	—	13	13
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	1,081	1,081	—	35	35
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	—	57	0	—	1,720	4,567	92	54	145
Total	117	—	1,555	86	—	26,226	47,198	677	846	1,523
Persian Gulf⁴	—	—	—	—	—	1,151	3,767	84	37	122

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	73,932	1,986	202	-	-	-	-	-	482	482
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	73,932	1,985	202	-	-	-	-	-	482	482
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	1	0	-	-	-	-	-	0	0
Total	73,932	1,986	202	-	-	-	-	-	482	482
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	97	-	-	337	-	34	-	371	-	7
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	97	-	-	337	-	34	-	371	-	7
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	-	0	-	0
Total	-	97	-	-	337	-	34	-	371	-	7
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	8	—	5	129	134	95	69
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	8	—	5	129	134	95	69
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	—	0	—	0	0	0	0	0
Total	—	—	8	—	5	129	134	95	69
Persian Gulf¹	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	15	19	477	194	—	4,156	78,088	2,385	134	2,519
Argentina	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	15	18	477	193	—	4,153	78,085	2,385	134	2,519
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	1	—	1	1	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	1	1	—	0	0
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—
Sweden	—	1	—	—	—	1	1	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	—	0	0	0	0	0
Total	15	19	477	194	—	4,156	78,088	2,385	134	2,519
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	13,284	-	-	6,809	-	-	-	-	-	-
Algeria	-	-	-	84	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	4,741	-	-	4,316	-	-	-	-	-	-
Kuwait	702	-	-	19	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	7,841	-	-	1,613	-	-	-	-	-	-
United Arab Emirates	-	-	-	777	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	48,705	-	-	9,040	-	-	-	-	2,242	2,242
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	353	-	-	-	-	-	-
Brazil	1,018	-	-	703	-	-	-	-	56	56
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	19,473	-	-	950	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	6,969	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	380	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	14	-	-	-	-	-	-
Guatemala	294	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	704	704
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	887	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	230	230
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	548	-	-	-	-	-	-
Mexico	19,194	-	-	1,980	-	-	-	-	-	-
Netherlands	-	-	-	1,043	-	-	-	-	58	58
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	566	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	168	-	-	-	-	29	29
Sweden	-	-	-	-	-	-	-	-	93	93
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	391	-	-	-	-	-	-	-	-	-
United Kingdom	1,366	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	-	1,448	-	-	-	-	1,072	1,072
Total	61,989	-	-	15,849	-	-	-	-	2,242	2,242
Persian Gulf⁴	13,284	-	-	7,291	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	-	25	-	-	25	-	-
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	25	-	-	25	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	0	-	-	0	-	-
Total	-	-	-	-	-	25	-	-	25	-	-
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	163	163	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	163	163	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	444	—	313	2,290	2,603	303	63
Argentina	—	—	—	—	—	—	—	—	23
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	322	322	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	236	—	155	200	355	—	27
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	13
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	208	—	—	—	—	106	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	1,768	1,768	105	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	158	—	158	23	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	—	0	—	0	0	0	69	0
Total	—	—	444	—	313	2,453	2,766	303	63
Persian Gulf⁴	—	—	—	—	—	163	163	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	287	—	7,259	20,543	429	234	663
Algeria	—	—	—	—	—	84	84	—	3	3
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	4,316	9,057	153	139	292
Kuwait	—	—	—	—	—	19	721	23	1	23
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	1,776	9,617	253	57	310
United Arab Emirates	—	—	—	287	—	1,064	1,064	—	34	34
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	70	429	—	1,083	—	16,318	65,023	1,571	526	2,098
Argentina	—	204	—	4	—	231	231	—	7	7
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	64	—	64	64	—	2	2
Belgium	—	—	—	1	—	354	354	—	11	11
Brazil	—	225	—	—	—	1,347	2,365	33	43	76
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	1	—	1,569	21,042	628	51	679
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	6,969	225	—	225
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	380	380	—	12	12
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	5	—	18	18	—	1	1
Germany	—	—	—	2	—	16	16	—	1	1
Guatemala	—	—	—	—	—	—	294	9	—	9
India	—	—	—	2	—	706	706	—	23	23
Indonesia	—	—	—	169	—	169	169	—	5	5
Italy	—	—	—	10	—	897	897	—	29	29
Korea, South	—	—	—	381	—	925	925	—	30	30
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	45	—	—	—	—	593	593	—	19	19
Mexico	—	—	—	—	—	3,853	23,047	619	124	743
Netherlands	—	—	—	—	—	1,101	1,101	—	36	36
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	370	—	936	936	—	30	30
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	197	197	—	6	6
Sweden	—	—	—	—	—	93	93	—	3	3
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	391	13	—	13
United Kingdom	—	—	—	—	—	181	1,547	44	6	50
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	25	0	—	74	—	2,688	2,688	0	87	88
Total	70	429	—	1,370	—	23,577	85,566	2,000	761	2,760
Persian Gulf⁴	—	—	—	721	—	8,175	21,459	429	264	692

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
OPEC	PAD District 4									
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Non-OPEC	9,273	297	-	-	-	-	-	-	103	103
Canada	9,273	297	-	-	-	-	-	-	103	103
Ecuador	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	9,273	297	-	-	-	-	-	-	103	103
OPEC	PAD District 5									
	12,983	-	-	1,822	-	-	-	-	282	282
	-	-	-	1,620	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	7,208	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	1,028	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	3,750	-	-	202	-	-	-	-	282	282
	997	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	25,570	1,170	-	695	-	709	709	-	811	811
	1,770	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	700	-	-	-	-	-	-	-	-	-
	5,411	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	8,703	1,164	-	393	-	69	69	-	30	30
-	-	-	-	-	-	-	-	-	-	
1,423	-	-	-	-	-	-	-	-	-	
3,866	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
	PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	4	-	-	204	-	-	-	204	-	-
Canada	-	4	-	-	204	-	-	-	204	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	-	-	0	-	-
Total	-	4	-	-	204	-	-	-	204	-	-
	PAD District 5										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	167	593	-	627	-	-	-	627	-	7
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	124	-	-	582	-	-	-	582	-	1
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	43	-	-	45	-	-	-	45	-	6
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	593	-	0	-	-	-	0	-	0
Total	-	167	593	-	627	-	-	-	627	-	7
Persian Gulf ⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	65	-	-	-	-	-	-	-
Canada	-	65	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	65	-	-	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	3,640	-	-	39	265	304	-	-
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	20	-	-	39	75	114	-	-
China	-	314	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	873	-	-	-	-	-	-	-
Korea, South	-	2,149	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	284	-	-	0	190	190	-	-
Total	-	3,640	-	-	39	265	304	-	-
Persian Gulf ⁴	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, July 2022
(Thousand Barrels) — Continued

Country of Origin								Daily Average		
								Crude Oil	Products	Total
	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products			
	PAD District 4									
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	75	—	1	749	10,022	299	24	323
Canada	—	—	75	—	1	749	10,022	299	24	323
Ecuador	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	—	0	0	0	0	0	0
Total	—	—	75	—	1	749	10,022	299	24	323
	PAD District 5									
OPEC	—	—	—	—	—	2,157	15,140	419	70	488
Algeria	—	—	—	—	—	1,620	1,620	—	52	52
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	7,208	233	—	233
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	1,028	33	—	33
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	484	4,234	121	16	137
United Arab Emirates	—	—	—	—	—	—	997	32	—	32
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	6	—	70	71	—	8,870	34,440	825	286	1,111
Argentina	—	—	—	—	—	—	1,770	57	—	57
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	700	23	—	23
Brazil	—	—	—	—	—	—	5,411	175	—	175
Brunei	—	—	—	—	—	—	—	—	—	—
Canada	—	—	70	6	—	2,573	11,276	281	83	364
China	—	—	—	—	—	314	314	—	10	10
Colombia	—	—	—	—	—	—	1,423	46	—	46
Ecuador	—	—	—	—	—	—	3,866	125	—	125
Finland	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	—	—	1,190	1,190	—	38	38
Korea, South	—	—	—	22	—	2,798	2,798	—	90	90
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	302	1,474	38	10	48
Netherlands	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	399	13	—	13
Qatar	—	—	—	43	—	47	47	—	2	2
Singapore	—	—	—	—	—	593	593	—	19	19
Sweden	—	—	—	—	—	—	—	—	—	—
Taiwan	6	—	—	—	—	255	255	—	8	8
United Kingdom	—	—	—	—	—	295	295	—	10	10
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Other	0	—	0	0	—	503	2,629	67	16	83
Total	6	—	70	71	—	11,027	49,580	1,244	356	1,599
Persian Gulf ⁴	—	—	—	43	—	531	12,486	386	17	403

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	55,403	746	-	1,253	-	344	344	811	6,307	7,118
Algeria	1,581	506	-	-	-	-	-	-	-	-
Angola	6,243	-	-	-	-	18	18	-	630	630
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	240	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	346	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	11,729	-	-	-	-	-	-	-	-	-
Nigeria	19,421	-	-	428	-	-	-	-	1,282	1,282
Saudi Arabia	16,429	-	-	479	-	326	326	514	4,174	4,688
United Arab Emirates	-	-	-	-	-	-	-	282	221	503
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	70,163	6,935	2,192	7,552	-	15,441	15,441	31,673	57,137	88,810
Argentina	966	-	-	-	-	16	16	-	543	543
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	1,376	1,376	-	736	736
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	2,426	2,426	521	1,002	1,523
Brazil	-	-	-	-	-	-	-	-	1,227	1,227
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	28,975	6,739	2,192	-	-	2,048	2,048	15,388	7,455	22,843
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	1,493	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	4	7	11
Ecuador	-	-	-	202	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	100	-	41	41	-	4,145	4,145
France	-	-	-	560	-	1,592	1,592	1,027	1,956	2,983
Germany	-	-	-	-	-	333	333	-	400	400
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	333	-	-	-	288	9,288	9,576
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	1,623	1,623	-	3,476	3,476
Korea, South	-	-	-	-	-	-	-	-	340	340
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	676	676	-	632	632
Malaysia	-	-	-	-	-	-	-	-	161	161
Mexico	9,452	-	-	2,607	-	-	-	-	500	500
Netherlands	-	-	-	124	-	2,158	2,158	5,804	4,124	9,928
Norway	5,460	196	-	-	-	278	278	807	1,620	2,427
Oman	-	-	-	-	-	-	-	-	208	208
Portugal	-	-	-	-	-	348	348	3	4,219	4,222
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	3,098	-	-	2,793	-	-	-	-	2,153	2,153
Spain	-	-	-	180	-	1,065	1,065	111	5,779	5,890
Sweden	-	-	-	-	-	230	230	-	1,286	1,286
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,994	-	-	-	-	39	39	-	-	-
United Kingdom	1,082	-	-	1	-	1,072	1,072	7,598	2,494	10,092
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	17,643	0	0	652	-	120	120	122	3,386	3,508
Total	125,566	7,681	2,192	8,805	-	15,785	15,785	32,484	63,444	95,928
Persian Gulf⁴	16,429	-	-	825	-	326	326	811	4,395	5,206

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	—	—	—	—	3,110	—	—	—	3,110	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	645	—	—	—	645	—	—
Saudi Arabia	—	—	—	—	2,417	—	—	—	2,417	—	—
United Arab Emirates	—	—	—	—	48	—	—	—	48	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	1,271	—	—	30,990	51	62	—	31,103	—	92
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	776	—	62	—	838	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	316	—	—	21,655	51	—	—	21,706	—	7
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	1	—	—	—	1	—	—
Colombia	—	—	—	—	407	—	—	—	407	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	712	—	—	20	—	—	—	20	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	2,850	—	—	—	2,850	—	85
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	256	—	—	—	256	—	—
Qatar	—	—	—	—	3,004	—	—	—	3,004	—	—
Russia	—	—	—	—	2,021	—	—	—	2,021	—	—
Spain	—	243	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	0	0	0	—	0	—	0
Total	—	1,271	—	—	34,100	51	62	—	34,213	—	92
Persian Gulf⁴	—	—	—	—	5,469	—	—	—	5,469	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	1,851	—	—	62	212	274	70	—
Algeria	—	—	—	—	—	5	5	—	—
Angola	—	—	—	—	—	—	—	70	—
Congo (Brazzaville)	—	—	—	—	62	30	92	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	1,180	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	396	—	—	—	173	173	—	—
United Arab Emirates	—	275	—	—	—	4	4	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	4,240	112	—	3,164	8,749	11,913	335	7
Argentina	—	—	—	—	—	1	1	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	32	324	356	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	29	29	—	—
Brazil	—	—	—	—	4	205	209	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	1,917	112	—	61	1,104	1,165	14	7
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	225	2,540	2,765	—	—
Denmark	—	—	—	—	68	—	68	—	—
Ecuador	—	—	—	—	100	561	661	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	102	102	69	—
Germany	—	—	—	—	272	14	286	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	578	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	1,034	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	10	—	—	616	2,206	2,822	—	—
Netherlands	—	—	—	—	366	456	822	—	—
Norway	—	—	—	—	361	—	361	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	442	—	—	—	—	—	—	—
Russia	—	—	—	—	—	882	882	—	—
Spain	—	—	—	—	683	8	691	—	—
Sweden	—	—	—	—	111	—	111	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	19	11	30	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	259	0	—	246	306	552	252	0
Total	—	6,091	112	—	3,226	8,961	12,187	405	7
Persian Gulf¹	—	2,293	—	—	—	177	177	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	94	—	14,860	70,263	261	70	331
Algeria	—	—	—	—	—	511	2,092	7	2	10
Angola	—	—	—	—	—	718	6,961	29	3	33
Congo (Brazzaville)	—	—	—	—	—	92	92	—	0	0
Equatorial Guinea	—	—	—	—	—	240	240	—	1	1
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	346	346	—	2	2
Kuwait	—	—	—	—	—	1,195	1,195	—	6	6
Libya	—	—	—	—	—	—	11,729	55	—	55
Nigeria	—	—	—	—	—	2,355	21,776	92	11	103
Saudi Arabia	—	—	—	—	—	8,479	24,908	77	40	117
United Arab Emirates	—	—	—	94	—	924	924	—	4	4
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	672	10	6,630	785	—	178,100	248,263	331	840	1,171
Argentina	—	—	—	—	—	560	1,526	5	3	7
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	2,468	2,468	—	12	12
Bahrain	—	—	—	19	—	19	19	—	0	0
Belgium	—	—	—	1	—	4,817	4,817	—	23	23
Brazil	—	1	—	—	—	1,437	1,437	—	7	7
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	580	—	6,260	491	—	66,397	95,372	137	313	450
Chad	—	—	—	—	—	—	—	—	—	—
China	71	—	—	—	—	72	72	—	0	0
Colombia	—	—	159	—	—	3,331	4,824	7	16	23
Denmark	—	—	—	—	—	79	79	—	0	0
Ecuador	—	—	—	—	—	863	863	—	4	4
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	4,286	4,286	—	20	20
France	—	—	—	57	—	5,363	5,363	—	25	25
Germany	—	—	—	61	—	1,812	1,812	—	9	9
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	10,487	10,487	—	49	49
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	98	21	—	5,218	5,218	—	25	25
Korea, South	5	—	—	67	—	1,446	1,446	—	7	7
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,308	1,308	—	6	6
Malaysia	4	—	—	—	—	165	165	—	1	1
Mexico	—	—	—	—	—	5,939	15,391	45	28	73
Netherlands	—	—	—	55	—	16,022	16,022	—	76	76
Norway	—	—	—	—	—	3,262	8,722	26	15	41
Oman	—	—	—	—	—	208	208	—	1	1
Portugal	—	—	—	—	—	4,826	4,826	—	23	23
Qatar	—	—	—	—	—	3,446	3,446	—	16	16
Russia	—	—	—	5	—	7,854	10,952	15	37	52
Spain	6	—	56	—	—	8,131	8,131	—	38	38
Sweden	—	—	—	3	—	1,630	1,630	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	39	2,033	9	0	10
United Kingdom	—	2	—	—	—	11,197	12,279	5	53	58
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	6	7	57	5	—	5,418	23,061	82	25	107
Total	672	10	6,630	879	—	192,960	318,526	592	910	1,502
Persian Gulf⁴	—	—	—	113	—	14,409	30,838	77	68	145

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	545,740	13,573	1,273	-	-	-	-	-	3,152	3,152
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	545,740	13,567	1,273	-	-	-	-	-	3,152	3,152
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	6	0	-	-	-	-	-	0	0
Total	545,740	13,573	1,273	-	-	-	-	-	3,152	3,152
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	474	-	-	1,834	37	123	-	1,994	-	31
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	474	-	-	1,834	37	123	-	1,994	-	31
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	0	0	-	0	-	0
Total	-	474	-	-	1,834	37	123	-	1,994	-	31
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	34	50	—	79	795	874	624	463
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	34	50	—	79	795	874	624	463
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	0	—	0	0	0	0	0
Total	—	34	50	—	79	795	874	624	463
Persian Gulf⁴	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	102	146	3,512	1,508	—	27,810	573,550	2,574	131	2,705
Argentina	—	—	—	4	—	4	4	—	0	0
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	102	144	3,512	1,500	—	27,794	573,534	2,574	131	2,705
Chad	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	1	—	1	1	—	0	0
Germany	—	—	—	3	—	3	3	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	6	6	—	0	0
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—
Sweden	—	2	—	—	—	2	2	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	—	0	0	0	0	0
Total	102	146	3,512	1,508	—	27,810	573,550	2,574	131	2,705
Persian Gulf⁴	—	—	—	—	—	—	—	—	—	—

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	68,845	16	-	28,867	-	-	-	-	-	-
Algeria	-	-	-	2,033	-	-	-	-	-	-
Angola	949	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	507	-	-	-	-	-	-	-	-	-
Iraq	11,372	-	-	11,125	-	-	-	-	-	-
Kuwait	3,713	-	-	2,311	-	-	-	-	-	-
Libya	-	-	-	46	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	52,304	-	-	9,949	-	-	-	-	-	-
United Arab Emirates	-	-	-	3,403	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	292,284	1	25	61,898	-	179	179	-	11,050	11,050
Argentina	-	-	-	-	-	-	-	-	691	691
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	46	46
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	353	-	-	-	-	179	179
Brazil	1,943	-	-	1,931	-	-	-	-	219	219
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	120,440	-	-	3,809	-	-	-	-	26	26
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	34,935	-	-	526	-	-	-	-	14	14
Denmark	-	-	-	-	-	-	-	-	100	100
Ecuador	-	-	-	3,084	-	-	-	-	-	-
Egypt	-	-	-	1,366	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	377	377
France	-	-	-	1,031	-	48	48	-	231	231
Germany	-	-	-	83	-	-	-	-	167	167
Guatemala	589	-	-	-	-	-	-	-	-	-
India	-	-	-	183	-	-	-	-	2,854	2,854
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	1,578	-	-	-	-	441	441
Korea, South	-	-	-	-	-	-	-	-	536	536
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	18	18
Malaysia	-	-	-	548	-	-	-	-	-	-
Mexico	121,264	-	25	8,593	-	-	-	-	231	231
Netherlands	-	-	-	1,629	-	-	-	-	153	153
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	566	-	-	-	-	-	-
Russia	-	-	-	31,716	-	46	46	-	149	149
Spain	-	-	-	168	-	-	-	-	372	372
Sweden	-	-	-	-	-	-	-	-	94	94
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	5,203	-	-	-	-	-	-	-	-	-
United Kingdom	5,617	-	-	296	-	85	85	-	392	392
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,293	1	0	4,438	-	0	0	-	3,760	3,760
Total	361,129	17	25	90,765	-	179	179	-	11,050	11,050
Persian Gulf⁴	67,896	-	-	27,354	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	378	-	50	136	25	110	-	271	-	80
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	25	-	-	25	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	49
Finland	-	-	-	50	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	71	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	117	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	31
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	136	-	110	-	246	-	-
Spain	-	190	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	0	0	-	0	-	0
Total	-	378	-	50	136	25	110	-	271	-	80
Persian Gulf⁴	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
OPEC	—	—	—	880	—	1,711	2,591	—	—
Algeria	—	—	—	880	—	—	880	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	539	539	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	1,172	1,172	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	1,903	—	2,021	27,919	29,940	1,353	247
Argentina	—	—	—	—	—	—	—	—	98
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	505	505	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	239	239	—	—
Brazil	—	—	—	—	88	4,022	4,110	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	660	—	282	484	766	11	77
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	318	318	—	—
Denmark	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	27	—	27	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	62
Germany	—	—	15	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	61	61	—	—
Korea, South	—	—	997	—	—	—	—	121	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,119	1,119	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	37	—	—	17,164	17,164	614	—
Netherlands	—	—	9	—	—	237	237	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	9	—
Russia	—	—	—	—	400	3,506	3,906	—	—
Spain	—	—	1	—	—	—	—	25	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	390	—	390	47	10
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	—	184	0	834	264	1,098	526	0
Total	—	—	1,903	880	2,021	29,630	32,531	1,353	247
Persian Gulf¹	—	—	—	—	—	1,711	1,711	9	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
OPEC	—	—	—	1,207	—	32,681	101,526	325	154	479
Algeria	—	—	—	—	—	2,913	2,913	—	14	14
Angola	—	—	—	—	—	—	949	4	—	4
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	16	16	—	0	0
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	507	2	—	2
Iraq	—	—	—	—	—	11,664	23,036	54	55	109
Kuwait	—	—	—	—	—	2,311	6,024	18	11	28
Libya	—	—	—	—	—	46	46	—	0	0
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	29	—	11,150	63,454	247	53	299
United Arab Emirates	—	—	—	1,178	—	4,581	4,581	—	22	22
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	255	1,997	59	6,046	—	115,797	408,081	1,379	546	1,925
Argentina	—	726	—	26	—	1,541	1,541	—	7	7
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	551	551	—	3	3
Bahrain	—	—	—	456	—	456	456	—	2	2
Belgium	—	—	—	23	—	794	794	—	4	4
Brazil	—	1,073	—	—	—	7,411	9,354	9	35	44
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	—	—	1	12	—	5,362	125,802	568	25	593
Chad	—	—	—	—	—	—	—	—	—	—
China	12	—	—	—	—	12	12	—	0	0
Colombia	—	—	—	—	—	858	35,793	165	4	169
Denmark	—	—	—	—	—	100	100	—	0	0
Ecuador	—	—	—	—	—	3,084	3,084	—	15	15
Egypt	—	—	—	—	—	1,393	1,393	—	7	7
Estonia	—	—	—	—	—	49	49	—	0	0
Finland	—	—	—	—	—	427	427	—	2	2
France	—	—	—	17	—	1,389	1,389	—	7	7
Germany	—	139	—	18	—	494	494	—	2	2
Guatemala	—	—	—	—	—	—	589	3	—	3
India	—	—	—	5	—	3,042	3,042	—	14	14
Indonesia	—	—	—	725	—	725	725	—	3	3
Italy	—	—	—	55	—	2,252	2,252	—	11	11
Korea, South	—	—	—	2,284	—	3,938	3,938	—	19	19
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	1,137	1,137	—	5	5
Malaysia	130	—	—	—	—	678	678	—	3	3
Mexico	4	—	—	—	—	26,668	147,932	572	126	698
Netherlands	—	—	—	352	—	2,411	2,411	—	11	11
Norway	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	65	—	65	65	—	0	0
Portugal	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	1,914	—	2,489	2,489	—	12	12
Russia	—	—	—	—	—	36,063	36,063	—	170	170
Spain	2	—	—	—	—	758	758	—	4	4
Sweden	—	—	—	—	—	94	94	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	5,203	25	—	25
United Kingdom	52	25	—	—	—	1,297	6,914	26	6	33
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	55	34	58	94	—	10,259	12,552	11	49	59
Total	255	1,997	59	7,253	—	148,478	509,607	1,703	700	2,404
Persian Gulf⁴	—	—	—	3,577	—	32,651	100,547	320	154	474

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	1,830	—	—	262	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	1,830	—	—	262	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	58,192	2,586	—	83	—	20	20	—	440	440
Canada	58,192	2,586	—	83	—	15	15	—	440	440
Ecuador	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	5	5	—	0	0
Total	60,022	2,586	—	345	—	20	20	—	440	440
	PAD District 5									
OPEC	83,122	—	—	7,335	—	378	378	551	786	1,337
Algeria	—	—	—	6,323	—	—	—	—	—	—
Angola	1,808	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	41,678	—	—	—	—	—	—	—	—	—
Kuwait	1,474	—	—	—	—	—	—	2	—	2
Libya	4,072	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	30,435	—	—	1,012	—	378	378	549	786	1,335
United Arab Emirates	3,655	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—
Non-OPEC	165,236	9,012	—	6,723	—	5,166	5,166	738	6,658	7,396
Argentina	11,268	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	700	—	—	—	—	—	—	—	—	—
Brazil	25,591	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—
Canada	56,782	8,855	—	622	—	735	735	—	251	251
China	—	—	—	—	—	—	—	—	—	—
Colombia	13,892	—	—	199	—	—	—	—	—	—
Ecuador	26,847	—	—	605	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	640	—	317	317	—	641	641
Korea, South	—	—	—	—	—	3,086	3,086	—	1,522	1,522
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	9,105	—	—	3,167	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	674	85	759
Oman	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Peru	472	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	8	8	8	12	20
Singapore	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	172	172
Taiwan	—	—	—	—	—	—	—	—	751	751
United Kingdom	—	—	—	—	—	—	—	—	295	295
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Other	20,579	157	—	1,490	—	1,020	1,020	56	2,929	2,985
Total	248,358	9,361	—	14,058	—	5,544	5,544	1,289	7,444	8,733
Persian Gulf ⁴	77,242	—	—	1,012	—	386	386	559	798	1,357

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel	Other Biofuels ³	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	PAD District 4										
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	Non-OPEC	7	55	—	—	1,365	—	3	—	1,368	—
Canada	7	55	—	—	1,365	—	3	—	1,368	—	3
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	—	0	—	0	—	0	—	0
Total	7	55	—	—	1,365	—	3	—	1,368	—	3
OPEC	PAD District 5										
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—
	Non-OPEC	500	584	3,716	—	3,720	946	1	190	4,857	18
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Brazil	500	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Canada	—	431	—	—	3,026	—	1	—	3,027	—	3
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	190	190	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	—	100	—	—	—	100	—	—
Korea, South	—	153	—	—	594	946	—	—	1,540	18	13
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	49	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	3,667	—	0	0	0	0	0	0	0
Total	500	584	3,716	—	3,720	946	1	190	4,857	18	16
Persian Gulf ⁴	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil				Petrochemical Feedstocks	
				Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total	Naphtha	Other Oils
	PAD District 4								
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	284	-	-	-	-	-	-	-
Canada	-	284	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	284	-	-	-	-	-	-	-
	PAD District 5								
OPEC	-	-	-	-	-	35	35	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	35	35	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	20,130	-	-	1,071	946	2,017	210	-
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	270	-	-	374	663	1,037	-	-
China	-	933	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	2,924	-	-	-	-	-	-	-
Korea, South	-	13,866	-	-	-	-	-	13	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	93	93	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	226	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	975	-	-	-	-	-	197	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	936	-	-	697	190	887	0	-
Total	-	20,130	-	-	1,071	981	2,052	210	-
Persian Gulf ⁴	-	-	-	-	-	35	35	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-July 2022
(Thousand Barrels) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average			
								Crude Oil	Products	Total	
OPEC	PAD District 4										
	—	—	—	—	—	262	2,092	9	1	10	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	Non-OPEC	—	—	574	—	7	5,427	63,619	274	26	300
Canada	—	—	574	—	7	5,422	63,614	274	26	300	
Ecuador	—	—	—	—	—	—	—	—	—	—	
Qatar	—	—	—	—	—	—	—	—	—	—	
Other	—	—	0	—	0	5	5	0	0	0	
Total	—	—	574	—	7	5,689	65,711	283	27	310	
OPEC	PAD District 5										
	—	—	—	—	—	9,434	92,556	392	45	437	
	—	—	—	—	—	6,323	6,323	—	30	30	
	—	—	—	—	—	16	1,824	9	0	9	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	—	—	—	—	—	
	—	—	—	—	—	35	41,713	197	0	197	
	—	—	—	—	—	2	1,476	7	0	7	
	—	—	—	—	—	—	4,072	19	—	19	
	—	—	—	—	—	110	110	—	1	1	
	—	—	—	—	—	2,725	33,160	144	13	156	
	—	—	—	—	—	—	3,655	17	—	17	
	—	—	—	—	—	—	—	—	—	—	
	Non-OPEC	244	—	399	252	—	61,240	226,476	779	289	1,068
	Argentina	—	—	—	—	—	—	11,268	53	—	53
	Aruba	—	—	—	—	—	—	—	—	—	—
	Australia	—	—	—	—	—	—	700	3	—	3
	Brazil	—	—	—	—	—	500	26,091	121	2	123
	Brunei	—	—	—	—	—	—	—	—	—	—
	Canada	—	—	327	31	—	15,589	72,371	268	74	341
	China	72	—	—	—	—	1,005	1,005	—	5	5
	Colombia	—	—	—	—	—	199	14,091	66	1	66
	Ecuador	—	—	—	—	—	795	27,642	127	4	130
	Finland	—	—	—	—	—	—	—	—	—	—
	Germany	—	—	—	—	—	—	—	—	—	—
	Indonesia	—	—	—	—	—	—	—	—	—	—
	Japan	37	—	—	—	—	4,659	4,659	—	22	22
	Korea, South	—	—	—	61	—	20,272	20,272	—	96	96
	Malaysia	1	—	—	—	—	1	1	—	0	0
	Mexico	—	—	—	—	—	3,260	12,365	43	15	58
	Netherlands	—	—	—	—	—	808	808	—	4	4
	Oman	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	
Peru	—	—	—	—	—	—	472	2	—	2	
Qatar	—	—	—	160	—	188	188	—	1	1	
Singapore	—	—	—	—	—	3,893	3,893	—	18	18	
Sweden	—	—	—	—	—	172	172	—	1	1	
Taiwan	134	—	—	—	—	2,057	2,057	—	10	10	
United Kingdom	—	—	—	—	—	295	295	—	1	1	
Vietnam	—	—	—	—	—	—	—	—	—	—	
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	
Other	0	—	72	0	—	7,547	28,126	96	35	134	
Total	244	—	399	252	—	70,674	319,032	1,172	333	1,505	
Persian Gulf ⁴	—	—	—	160	—	2,950	80,192	364	14	378	

— = Not Applicable.

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

⁴ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, July 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	3,567	1,264	112,834	—	—	117,665	3,796
Hydrocarbon Gas Liquids	9,208	7,453	50,108	41	1,793	68,603	2,213
Natural Gas Liquids	9,208	7,453	50,108	41	1,793	68,603	2,213
Ethane	2,087	1,381	8,707	—	0	12,176	393
Propane	4,882	147	33,893	—	1,048	39,970	1,289
Normal Butane	2,204	294	7,348	1	742	10,589	342
Isobutane	0	4	111	—	2	116	4
Natural Gasoline	35	5,627	49	41	1	5,752	186
Other Liquids	180	3,982	7,905	25	742	12,834	414
Hydrogen/Biofuels/Other Hydrocarbons	159	1,180	1,473	24	330	3,166	102
Hydrogen	—	—	—	—	—	—	—
Biofuels	159	1,180	1,473	24	330	3,166	102
Fuel Ethanol	104	810	1,427	—	219	2,559	83
Biodiesel	55	371	46	24	112	607	20
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels ²	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	19	2,488	4,927	1	209	7,643	247
Naphthas and Lighter	8	2,474	4,704	1	206	7,394	239
Kerosene and Light Gas Oils	10	13	223	0	3	250	8
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	2	314	1,505	1	203	2,024	65
Reformulated	—	—	3	—	1	4	0
Conventional	2	314	1,502	1	201	2,020	65
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	2,839	1,530	88,188	14	6,686	99,256	3,202
Finished Motor Gasoline	42	512	23,260	1	517	24,332	785
Reformulated	—	—	—	—	—	—	—
Conventional	42	512	23,260	1	517	24,332	785
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	25	23	5,440	0	823	6,313	204
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	1,961	103	43,395	—	2,020	47,479	1,532
15 ppm sulfur and under	1,711	0	37,820	—	1,448	40,979	1,322
Greater than 15 ppm to 500 ppm sulfur	245	16	2,613	—	394	3,268	105
Greater than 500 ppm sulfur	4	87	2,962	—	179	3,232	104
Residual Fuel Oil	5	1	1,617	—	20	1,643	53
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	215	203	3,135	8	291	3,853	124
Waxes	81	42	16	—	3	142	5
Petroleum Coke	415	565	11,137	0	2,983	15,100	487
Asphalt and Road Oil	75	80	130	5	27	317	10
Miscellaneous Products	18	1	58	0	0	77	2
Total	15,793	14,230	259,035	81	9,221	298,358	9,624

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-July 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	10,403	13,855	702,194	0	1,548	728,000	3,434
Hydrocarbon Gas Liquids	56,170	50,708	385,373	356	11,251	503,858	2,377
Natural Gas Liquids	56,170	50,708	385,373	356	11,251	503,858	2,377
Ethane	15,230	14,104	64,860	1	5	94,200	444
Propane	29,896	997	254,930	8	5,240	291,072	1,373
Normal Butane	10,588	774	63,515	23	5,829	80,729	381
Isobutane	5	18	1,048	—	7	1,078	5
Natural Gasoline	451	34,816	1,019	324	169	36,779	173
Other Liquids	1,931	22,442	81,409	72	5,521	111,376	525
Hydrogen/Biofuels/Other Hydrocarbons	1,317	6,312	15,318	68	3,657	26,674	126
Hydrogen	—	—	—	—	—	—	—
Biofuels	1,317	6,312	15,318	68	3,657	26,674	126
Fuel Ethanol	1,028	4,942	14,694	2	1,595	22,260	105
Biodiesel	289	1,371	624	66	2,063	4,414	21
Renewable Diesel Fuel	NA	NA	NA	NA	NA	NA	NA
Other Biofuels ²	NA	NA	NA	NA	NA	NA	NA
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	486	14,927	54,441	2	897	70,754	334
Naphthas and Lighter	404	14,833	52,108	1	795	68,141	321
Kerosene and Light Gas Oils	83	94	2,332	1	103	2,613	12
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	128	1,202	11,650	2	967	13,949	66
Reformulated	8	—	6	—	11	25	0
Conventional	120	1,202	11,644	2	956	13,924	66
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	15,963	8,693	568,751	104	51,395	644,906	3,042
Finished Motor Gasoline	321	2,811	167,710	7	6,337	177,186	836
Reformulated	—	—	—	—	—	—	—
Conventional	321	2,811	167,710	7	6,337	177,186	836
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	162	134	32,627	0	4,351	37,275	176
Kerosene	17	4	1,322	—	8	1,351	6
Distillate Fuel Oil	6,531	1,061	240,344	0	13,969	261,905	1,235
15 ppm sulfur and under	5,108	4	205,677	0	10,460	221,249	1,044
Greater than 15 ppm to 500 ppm sulfur	1,055	295	17,241	—	1,518	20,110	95
Greater than 500 ppm sulfur	367	762	17,426	—	1,991	20,546	97
Residual Fuel Oil	1,552	1	17,178	—	3,385	22,116	104
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	1,801	1,384	17,444	82	1,902	22,613	107
Waxes	576	254	160	1	26	1,017	5
Petroleum Coke	4,344	2,604	89,689	0	21,203	117,840	556
Asphalt and Road Oil	530	429	2,032	14	212	3,218	15
Miscellaneous Products	130	10	244	0	2	386	2
Total	84,468	95,699	1,737,726	531	69,716	1,988,140	9,378

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, July 2022
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	—	—	182	—	330	330	—	—	—
Australia	2,830	576	—	1	—	—	—	1	—	1
Bahamas	—	32	—	166	—	1,222	1,222	—	0	0
Bahrain	—	—	—	0	—	—	—	—	—	—
Belgium	—	727	—	0	—	—	—	—	—	—
Belize	—	50	—	—	—	50	50	—	—	—
Brazil	1,700	1,776	—	1,330	—	1,513	1,513	—	—	—
Canada	12,616	7,576	—	2,495	—	984	984	—	1,162	1,162
Cayman Islands	—	5	—	0	—	13	13	—	—	—
Chile	—	1,254	—	125	—	1,774	1,774	—	—	—
China	8,089	9,048	—	3	—	—	—	—	0	0
Colombia	600	64	—	1,291	—	1,674	1,674	—	—	—
Costa Rica	—	234	—	12	—	600	600	—	—	—
Denmark	1,330	—	—	—	—	—	—	—	—	—
Dominican Republic	1,000	1,112	—	1	—	422	422	—	—	—
Ecuador	—	1,324	—	600	—	0	0	—	—	—
Egypt	—	1,001	—	—	—	—	—	—	—	—
El Salvador	—	154	—	0	—	499	499	—	—	—
Finland	—	646	—	—	—	—	—	—	—	—
France	5,740	282	—	31	—	—	—	—	0	0
Germany	4,985	111	—	3	—	0	0	0	—	0
Ghana	—	224	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	—	—	—	—	—
Guatemala	—	414	—	4	—	757	757	—	0	0
Honduras	—	636	—	0	—	283	283	—	—	—
Hong Kong	—	—	—	0	—	—	—	—	—	—
India	6,296	3,169	—	3	—	—	—	—	—	—
Indonesia	—	724	—	1	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	0	—	—	—	0	0	—	—	—
Italy	9,459	—	—	—	—	—	—	—	—	—
Jamaica	—	43	—	—	—	425	425	—	0	0
Japan	—	11,244	—	520	—	—	—	0	—	0
Korea, South	11,410	3,695	—	0	—	0	0	0	1	1
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	6,258	—	400	—	12,242	12,242	3	855	858
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	2,306	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	13,141	2,221	—	341	—	—	—	—	—	—
New Zealand	—	—	—	0	—	—	—	—	—	—
Nicaragua	285	—	—	—	—	38	38	—	—	—
Nigeria	—	242	—	—	—	—	—	—	—	—
Norway	—	1,130	—	60	—	—	—	—	—	—
Pakistan	—	—	—	—	—	0	0	—	—	—
Panama	—	227	—	0	—	401	401	—	—	—
Peru	—	945	—	34	—	483	483	—	—	—
Philippines	—	—	—	0	—	—	—	—	—	—
Portugal	—	420	—	—	—	—	—	—	—	—
Puerto Rico	—	7	—	0	—	2	2	—	—	—
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	2	—	—	—	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	8,719	2,183	—	8	—	—	—	—	—	—
South Africa	—	777	—	0	—	—	—	—	—	—
Spain	5,514	539	—	7	—	—	—	—	—	—
Switzerland	—	—	—	0	—	—	—	—	—	—
Taiwan	6,319	577	—	0	—	—	—	—	—	—
Thailand	4,150	—	—	2	—	—	—	—	—	—
Trinidad and Tobago	—	1	—	0	—	1	1	—	—	—
Turkey	—	1,080	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	0	—	0	0	—	0	0
United Kingdom	10,997	1,128	—	—	—	29	29	—	1	1
Venezuela	—	0	—	—	—	—	—	—	—	—
Other	2,485	2,441	—	21	—	590	590	—	1	1
Total	117,665	68,603	—	7,643	—	24,332	24,332	4	2,020	2,024

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, July 2022
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	—	—	NA	NA	2,946	—	600	—	3,546	—	—
Australia	0	—	NA	NA	0	—	2	—	2	—	—
Bahamas	—	—	NA	NA	259	20	450	—	729	—	—
Bahrain	—	—	NA	NA	—	—	—	—	—	—	—
Belgium	0	—	NA	NA	300	—	24	—	324	—	—
Belize	—	—	NA	NA	40	40	—	—	80	—	—
Brazil	1	—	NA	NA	8,335	0	—	—	8,335	—	—
Canada	993	511	NA	NA	1	336	175	—	513	—	—
Cayman Islands	—	—	NA	NA	59	—	—	—	59	—	—
Chile	0	—	NA	NA	5,963	—	—	—	5,963	—	—
China	3	—	NA	NA	1	—	—	—	1	—	—
Colombia	0	—	NA	NA	602	—	—	—	602	—	—
Costa Rica	1	—	NA	NA	410	—	—	—	410	—	—
Denmark	—	—	NA	NA	—	—	—	—	—	—	—
Dominican Republic	0	—	NA	NA	669	—	445	—	1,114	—	—
Ecuador	0	—	NA	NA	1,433	—	—	—	1,433	—	—
Egypt	—	—	NA	NA	—	—	—	—	—	—	—
El Salvador	—	—	NA	NA	286	80	—	—	366	—	—
Finland	—	—	NA	NA	—	—	—	—	—	—	—
France	0	—	NA	NA	—	—	—	—	—	—	—
Germany	—	3	NA	NA	0	—	—	—	0	—	—
Ghana	—	—	NA	NA	313	—	—	—	313	—	—
Gibraltar	—	—	NA	NA	—	—	—	—	—	—	—
Greece	65	—	NA	NA	—	—	—	—	—	—	—
Guatemala	—	—	NA	NA	583	506	—	—	1,089	—	—
Honduras	—	—	NA	NA	218	975	—	—	1,193	—	—
Hong Kong	0	—	NA	NA	—	—	—	—	—	—	—
India	0	—	NA	NA	0	—	—	—	0	—	—
Indonesia	0	—	NA	NA	2	—	—	—	2	—	—
Ireland	0	—	NA	NA	—	—	—	—	—	—	—
Israel	—	—	NA	NA	—	—	—	—	—	—	—
Italy	0	—	NA	NA	—	—	—	—	—	—	—
Jamaica	56	—	NA	NA	179	236	145	—	560	—	—
Japan	1	—	NA	NA	0	—	—	—	0	—	—
Korea, South	221	—	NA	NA	0	—	—	—	0	—	—
Lebanon	—	—	NA	NA	0	—	—	—	0	—	—
Mexico	126	1	NA	NA	8,505	—	3	—	8,508	—	—
Montenegro	—	—	NA	NA	—	—	—	—	—	—	—
Morocco	—	—	NA	NA	1	—	—	—	1	—	—
Mozambique	—	—	NA	NA	—	—	—	—	—	—	—
Netherlands	271	—	NA	NA	660	—	160	—	820	—	—
New Zealand	—	—	NA	NA	0	—	—	—	0	—	—
Nicaragua	0	—	NA	NA	120	—	—	—	120	—	—
Nigeria	—	—	NA	NA	0	—	—	—	0	—	—
Norway	—	45	NA	NA	—	—	—	—	—	—	—
Pakistan	—	—	NA	NA	—	—	—	—	—	—	—
Panama	—	—	NA	NA	2,254	390	374	—	3,018	—	—
Peru	133	46	NA	NA	2,994	—	—	—	2,994	—	—
Philippines	0	—	NA	NA	—	—	—	—	—	—	—
Portugal	—	—	NA	NA	—	—	—	—	—	—	—
Puerto Rico	4	—	NA	NA	0	—	—	—	0	—	—
Romania	—	—	NA	NA	—	—	—	—	—	—	—
Saudi Arabia	60	—	NA	NA	0	—	—	—	0	—	—
Serbia (Excludes Kosovo) ..	—	—	NA	NA	—	—	—	—	—	—	—
Singapore	294	1	NA	NA	0	—	90	—	90	—	—
South Africa	0	—	NA	NA	—	—	—	—	—	—	—
Spain	—	—	NA	NA	—	—	—	—	—	—	—
Switzerland	3	—	NA	NA	—	—	—	—	—	—	—
Taiwan	0	—	NA	NA	—	—	—	—	—	—	—
Thailand	0	—	NA	NA	—	—	—	—	—	—	—
Trinidad and Tobago	1	—	NA	NA	—	—	433	—	433	—	—
Turkey	—	—	NA	NA	—	—	—	—	—	—	—
United Arab Emirates	80	—	NA	NA	0	—	—	—	0	—	—
United Kingdom	107	—	NA	NA	1,085	—	—	—	1,085	—	—
Venezuela	—	—	NA	NA	0	—	—	—	0	—	—
Other	139	—	NA	NA	2,761	685	331	—	3,776	—	—
Total	2,559	607	NA	NA	40,979	3,268	3,232	—	47,479	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, July 2022
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	—	57	—	—	—	—	0	—
Australia	—	0	—	—	—	—	1	255
Bahamas	—	202	—	521	—	—	—	—
Bahrain	—	—	—	—	—	—	0	—
Belgium	—	—	—	—	—	—	0	104
Belize	—	20	—	—	—	—	—	—
Brazil	—	305	—	—	—	—	1	741
Canada	—	988	—	158	—	—	110	875
Cayman Islands	—	121	—	—	—	—	—	—
Chile	—	401	—	—	—	—	0	0
China	—	—	—	1	—	—	3	2,229
Colombia	—	1	—	—	—	—	0	—
Costa Rica	—	190	—	—	—	—	0	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	175	—	100	—	—	1	198
Ecuador	—	—	—	—	—	—	0	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	—	0	—	—	—	—	0	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	0	286
Germany	—	—	—	1	—	—	2	0
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	—	—	396
Guatemala	—	79	—	—	—	—	0	267
Honduras	—	36	—	—	—	—	0	—
Hong Kong	—	—	—	—	—	—	0	—
India	—	—	—	1	—	—	4	589
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	201
Israel	—	—	—	—	—	—	0	—
Italy	—	—	—	—	—	—	—	541
Jamaica	—	215	—	—	—	—	—	—
Japan	—	—	—	0	—	—	1	2,190
Korea, South	—	—	—	0	—	—	—	1
Lebanon	—	—	—	0	—	—	—	—
Mexico	—	2,343	—	248	—	—	11	1,660
Montenegro	—	—	—	—	—	—	—	110
Morocco	—	—	—	—	—	—	—	725
Mozambique	—	—	—	—	—	—	—	41
Netherlands	—	—	—	440	—	—	4	437
New Zealand	—	—	—	—	—	—	0	—
Nicaragua	—	26	—	—	—	—	—	0
Nigeria	—	—	—	—	—	—	—	187
Norway	—	—	—	—	—	—	—	126
Pakistan	—	—	—	—	—	—	0	—
Panama	—	394	—	22	—	—	—	—
Peru	—	407	—	—	—	—	0	—
Philippines	—	—	—	—	—	—	0	268
Portugal	—	—	—	—	—	—	—	187
Puerto Rico	—	0	—	1	—	—	0	—
Romania	—	—	—	—	—	—	—	165
Saudi Arabia	—	2	—	—	—	—	0	2
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	0	—	—	—	—	0	—
South Africa	—	—	—	—	—	—	—	41
Spain	—	—	—	—	—	—	0	157
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	0	—	—	—	—	0	—
Thailand	—	—	—	—	—	—	0	333
Trinidad and Tobago	—	—	—	—	—	—	—	—
Turkey	—	—	—	1	—	—	0	581
United Arab Emirates	—	0	—	—	—	—	0	0
United Kingdom	—	—	—	—	—	—	0	268
Venezuela	—	—	—	—	—	—	0	—
Other	—	351	—	149	—	—	4	939
Total	—	6,313	—	1,643	—	—	142	15,100

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, July 2022
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	1	68	0	4,184	4,184	—	135	135
Australia	—	5	—	842	3,672	91	27	118
Bahamas	3	1	0	2,878	2,878	—	93	93
Bahrain	—	0	—	0	0	—	0	0
Belgium	0	553	0	1,708	1,708	—	55	55
Belize	0	1	—	201	201	—	6	6
Brazil	—	357	1	14,360	16,060	55	463	518
Canada	158	320	6	16,849	29,466	407	544	951
Cayman Islands	1	1	—	200	200	—	6	6
Chile	—	97	—	9,614	9,614	—	310	310
China	1	9	1	11,298	19,387	261	364	625
Colombia	0	926	0	4,559	5,159	19	147	166
Costa Rica	43	13	0	1,503	1,503	—	48	48
Denmark	—	0	—	0	1,330	43	0	43
Dominican Republic	34	31	—	3,189	4,189	32	103	135
Ecuador	0	71	9	3,437	3,437	—	111	111
Egypt	—	1	—	1,002	1,002	—	32	32
El Salvador	0	6	0	1,025	1,025	—	33	33
Finland	—	0	—	646	646	—	21	21
France	—	104	0	704	6,444	185	23	208
Germany	3	1	0	124	5,109	161	4	165
Ghana	—	0	—	537	537	—	17	17
Gibraltar	—	—	—	—	—	—	—	—
Greece	—	0	—	462	462	—	15	15
Guatemala	—	19	—	2,630	2,630	—	85	85
Honduras	—	14	—	2,162	2,162	—	70	70
Hong Kong	—	1	—	1	1	—	0	0
India	—	10	0	3,776	10,072	203	122	325
Indonesia	0	2	0	728	728	—	23	23
Ireland	—	0	0	202	202	—	7	7
Israel	—	2	—	2	2	—	0	0
Italy	—	0	—	541	10,000	305	17	323
Jamaica	—	4	—	1,304	1,304	—	42	42
Japan	0	12	5	13,973	13,973	—	451	451
Korea, South	0	5	1	3,925	15,335	368	127	495
Lebanon	—	0	—	1	1	—	0	0
Mexico	66	652	49	33,422	33,422	—	1,078	1,078
Montenegro	—	—	—	110	110	—	4	4
Morocco	—	0	—	3,032	3,032	—	98	98
Mozambique	—	—	—	41	41	—	1	1
Netherlands	1	3	1	4,538	17,679	424	146	570
New Zealand	—	1	—	1	1	—	0	0
Nicaragua	—	4	—	188	473	9	6	15
Nigeria	—	108	—	537	537	—	17	17
Norway	—	0	—	1,361	1,361	—	44	44
Pakistan	—	0	0	1	1	—	0	0
Panama	—	32	—	4,094	4,094	—	132	132
Peru	—	64	—	5,105	5,105	—	165	165
Philippines	—	1	0	270	270	—	9	9
Portugal	—	—	—	607	607	—	20	20
Puerto Rico	0	22	—	36	36	—	1	1
Romania	—	1	—	166	166	—	5	5
Saudi Arabia	—	6	—	72	72	—	2	2
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	2	0	2,579	11,298	281	83	364
South Africa	—	76	—	894	894	—	29	29
Spain	—	2	—	704	6,218	178	23	201
Switzerland	—	0	—	3	3	—	0	0
Taiwan	—	4	0	582	6,901	204	19	223
Thailand	—	25	0	360	4,510	134	12	145
Trinidad and Tobago	—	24	—	459	459	—	15	15
Turkey	0	1	—	1,663	1,663	—	54	54
United Arab Emirates	2	58	—	141	141	—	5	5
United Kingdom	—	63	0	2,679	13,676	355	86	441
Venezuela	—	5	0	5	5	—	0	0
Other	4	65	4	8,476	10,960	81	274	354
Total	317	3,853	77	180,693	298,358	3,796	5,829	9,624

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-July 2022
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	266	—	1,481	—	755	755	—	0	0
Australia	5,877	2,290	—	18	—	0	0	2	0	2
Bahamas	460	253	—	216	—	2,686	2,686	—	499	499
Bahrain	—	—	—	0	—	0	0	—	—	—
Belgium	965	13,024	—	2,487	—	0	0	—	0	0
Belize	—	134	—	—	—	100	100	—	—	—
Brazil	17,250	11,239	—	15,938	—	6,742	6,742	—	—	—
Canada	69,651	51,845	—	14,973	—	5,124	5,124	—	6,351	6,351
Cayman Islands	—	25	—	0	—	162	162	0	1	1
Chile	120	9,237	—	371	—	9,039	9,039	1	158	158
China	38,863	60,284	—	23	—	0	0	—	0	0
Colombia	5,612	611	—	7,386	—	7,090	7,090	—	0	0
Costa Rica	—	1,433	—	81	—	4,512	4,512	—	0	0
Denmark	10,379	—	—	—	—	0	0	0	—	0
Dominican Republic	4,390	8,244	—	12	—	2,518	2,518	0	201	201
Ecuador	—	7,563	—	2,129	—	3,711	3,711	—	9	9
Egypt	—	8,635	—	0	—	—	—	—	—	—
El Salvador	—	2,052	—	1	—	3,789	3,789	—	—	—
Finland	—	4,448	—	517	—	—	—	—	—	—
France	39,284	4,610	—	490	—	1	1	—	0	0
Germany	21,797	215	—	19	—	0	0	0	—	0
Ghana	—	1,067	—	0	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	1	1	—	—	—
Guatemala	—	2,303	—	27	—	8,658	8,658	0	1	1
Honduras	—	3,838	—	22	—	3,394	3,394	—	0	0
Hong Kong	—	—	—	0	—	0	0	—	—	—
India	61,680	27,197	—	24	—	0	0	0	0	0
Indonesia	630	17,164	—	3	—	—	—	—	—	—
Ireland	6,337	—	—	—	—	1	1	—	—	—
Israel	—	1	—	0	—	0	0	—	—	—
Italy	39,792	737	—	22	—	—	—	—	—	—
Jamaica	—	198	—	0	—	1,389	1,389	0	0	0
Japan	5,065	79,121	—	1,855	—	2	2	9	—	9
Korea, South	67,230	31,753	—	529	—	510	510	3	4	7
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	42,823	—	3,582	—	101,405	101,405	3	5,444	5,448
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	9,955	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	70,850	18,135	—	10,326	—	4	4	—	—	—
New Zealand	—	2	—	0	—	—	—	—	—	—
Nicaragua	1,422	50	—	—	—	161	161	—	—	—
Nigeria	—	2,300	—	0	—	1,483	1,483	—	—	—
Norway	2,885	6,939	—	499	—	—	—	—	—	—
Pakistan	—	—	—	13	—	1	1	—	—	—
Panama	1,122	1,493	—	3	—	4,352	4,352	1	304	305
Peru	2,619	2,369	—	519	—	6,108	6,108	—	610	610
Philippines	—	0	—	1	—	—	—	—	—	—
Portugal	3,590	5,146	—	—	—	—	—	—	—	—
Puerto Rico	—	47	—	14	—	195	195	0	1	1
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	—	2,302	—	2	2	—	0	0
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—	—	—
Singapore	68,915	14,354	—	827	—	3	3	—	0	0
South Africa	—	2,425	—	3	—	321	321	0	—	0
Spain	38,522	6,492	—	7	—	—	—	—	—	—
Switzerland	728	2,766	—	843	—	—	—	—	310	310
Taiwan	38,500	577	—	2,163	—	3	3	—	—	—
Thailand	14,219	0	—	10	—	—	—	—	—	—
Trinidad and Tobago	—	7	—	2	—	277	277	—	—	—
Turkey	—	9,806	—	0	—	0	0	—	0	0
United Arab Emirates	—	—	—	2	—	7	7	0	0	0
United Kingdom	66,412	10,582	—	421	—	205	205	1	1	1
Venezuela	—	2	—	5	—	4	4	1	0	1
Other	22,834	17,800	—	588	—	2,471	2,471	4	30	35
Total	728,000	503,858	—	70,754	—	177,186	177,186	25	13,924	13,949

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-July 2022
(Thousand Barrels) — Continued

Destination	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
Argentina	0	0	NA	NA	10,658	535	1,823	—	13,016	0	—
Australia	1	0	NA	NA	3	—	2	—	5	—	—
Bahamas	1	0	NA	NA	3,245	207	1,711	—	5,163	0	—
Bahrain	0	—	NA	NA	—	—	—	—	—	0	—
Belgium	1	0	NA	NA	1,073	—	118	—	1,191	—	—
Belize	—	—	NA	NA	82	145	—	—	227	—	—
Brazil	1,416	—	NA	NA	28,418	1,559	1,312	—	31,288	538	—
Canada	6,349	2,289	NA	NA	9	1,574	1,087	—	2,669	156	—
Cayman Islands	0	—	NA	NA	811	185	—	—	996	—	—
Chile	172	1	NA	NA	31,784	593	300	—	32,677	0	—
China	6	0	NA	NA	160	150	1	—	312	0	—
Colombia	216	—	NA	NA	8,411	136	—	—	8,547	10	—
Costa Rica	3	—	NA	NA	4,670	21	—	—	4,691	0	—
Denmark	—	—	NA	NA	464	—	—	—	464	—	—
Dominican Republic	6	—	NA	NA	2,202	35	1,853	—	4,090	101	—
Ecuador	0	—	NA	NA	7,534	571	406	—	8,512	2	—
Egypt	50	—	NA	NA	—	—	—	—	—	—	—
El Salvador	—	—	NA	NA	1,407	532	605	—	2,544	0	—
Finland	—	—	NA	NA	—	—	—	—	—	—	—
France	62	—	NA	NA	898	213	—	—	1,112	0	—
Germany	2	16	NA	NA	1	—	—	—	1	—	—
Ghana	—	—	NA	NA	625	—	—	—	625	—	—
Gibraltar	31	—	NA	NA	280	—	—	—	280	—	—
Greece	131	—	NA	NA	—	—	—	—	—	—	—
Guatemala	—	—	NA	NA	4,728	1,793	1,213	—	7,734	1	—
Honduras	0	—	NA	NA	2,289	2,419	367	—	5,075	150	—
Hong Kong	0	—	NA	NA	—	—	—	—	—	—	—
India	1,935	0	NA	NA	266	0	—	—	266	—	—
Indonesia	0	1	NA	NA	4	—	—	—	4	—	—
Ireland	0	—	NA	NA	—	—	—	—	—	—	—
Israel	4	—	NA	NA	0	—	—	—	0	0	—
Italy	0	0	NA	NA	—	—	—	—	—	—	—
Jamaica	306	—	NA	NA	790	306	633	—	1,729	0	—
Japan	3	—	NA	NA	0	—	—	—	0	1	—
Korea, South	2,882	—	NA	NA	9	165	—	—	174	0	—
Lebanon	—	—	NA	NA	0	—	—	—	0	—	—
Mexico	1,099	2	NA	NA	58,848	937	541	—	60,326	12	—
Montenegro	—	—	NA	NA	—	—	—	—	—	—	—
Morocco	0	—	NA	NA	1	31	—	—	32	—	—
Mozambique	—	—	NA	NA	—	—	—	—	—	—	—
Netherlands	1,733	205	NA	NA	2,505	594	1,294	—	4,394	0	—
New Zealand	—	—	NA	NA	0	—	—	—	0	0	—
Nicaragua	0	—	NA	NA	324	549	552	—	1,424	361	—
Nigeria	669	—	NA	NA	3	121	—	—	124	2	—
Norway	—	45	NA	NA	317	—	—	—	317	—	—
Pakistan	—	—	NA	NA	—	—	—	—	—	—	—
Panama	0	—	NA	NA	12,328	1,732	1,238	—	15,299	7	—
Peru	812	334	NA	NA	18,085	554	50	—	18,689	0	—
Philippines	470	—	NA	NA	—	—	—	—	—	0	—
Portugal	—	—	NA	NA	—	—	—	—	—	—	—
Puerto Rico	31	—	NA	NA	667	150	0	—	818	1	—
Romania	—	—	NA	NA	—	—	—	—	—	—	—
Saudi Arabia	322	0	NA	NA	2	—	—	—	2	3	—
Serbia (Excludes Kosovo) ..	—	—	NA	NA	—	—	—	—	—	—	—
Singapore	1,193	1,519	NA	NA	1,931	—	580	—	2,511	0	—
South Africa	0	—	NA	NA	1	—	—	—	1	—	—
Spain	40	—	NA	NA	750	—	—	—	750	—	—
Switzerland	37	—	NA	NA	—	275	—	—	275	—	—
Taiwan	3	—	NA	NA	1	—	—	—	1	1	—
Thailand	0	—	NA	NA	0	—	—	—	0	—	—
Trinidad and Tobago	2	—	NA	NA	1,659	—	2,200	—	3,859	—	—
Turkey	24	—	NA	NA	302	—	—	—	302	—	—
United Arab Emirates	346	—	NA	NA	1	—	—	—	1	2	—
United Kingdom	1,274	—	NA	NA	5,177	600	—	—	5,777	1	—
Venezuela	0	—	NA	NA	2	—	—	—	2	—	—
Other	628	2	NA	NA	7,524	3,428	2,660	—	13,609	2	—
Total	22,260	4,414	NA	NA	221,249	20,110	20,546	—	261,905	1,351	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-July 2022
(Thousand Barrels) — Continued

Destination	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks		Waxes	Petroleum Coke
					Naphtha	Other Oils		
Argentina	—	144	—	30	—	—	2	359
Australia	—	0	—	0	—	—	9	1,558
Bahamas	—	639	—	3,815	—	—	—	—
Bahrain	—	—	—	—	—	—	0	—
Belgium	—	—	—	434	—	—	0	445
Belize	—	47	—	—	—	—	—	—
Brazil	—	1,085	—	0	—	—	5	11,980
Canada	—	5,098	—	2,170	—	—	747	3,812
Cayman Islands	—	426	—	0	—	—	—	—
Chile	—	3,323	—	602	—	—	3	463
China	—	0	—	18	—	—	25	20,443
Colombia	—	553	—	201	—	—	2	1
Costa Rica	—	1,174	—	70	—	—	1	547
Denmark	—	—	—	—	—	—	0	419
Dominican Republic	—	1,701	—	661	—	—	5	900
Ecuador	—	9	—	2	—	—	0	856
Egypt	—	—	—	—	—	—	—	1,803
El Salvador	—	327	—	0	—	—	0	520
Finland	—	—	—	—	—	—	0	278
France	—	—	—	0	—	—	1	857
Germany	—	—	—	2	—	—	10	358
Ghana	—	—	—	—	—	—	—	46
Gibraltar	—	—	—	137	—	—	—	—
Greece	—	—	—	0	—	—	—	2,357
Guatemala	—	372	—	0	—	—	1	2,221
Honduras	—	478	—	0	—	—	0	1,430
Hong Kong	—	—	—	—	—	—	1	—
India	—	0	—	9	—	—	16	10,954
Indonesia	—	—	—	—	—	—	0	0
Ireland	—	—	—	—	—	—	0	589
Israel	—	979	—	0	—	—	0	585
Italy	—	—	—	—	—	—	1	4,517
Jamaica	—	671	—	—	—	—	0	0
Japan	—	0	—	2	—	—	5	10,295
Korea, South	—	0	—	1,291	—	—	2	183
Lebanon	—	0	—	0	—	—	—	237
Mexico	—	12,255	—	1,886	—	—	119	11,911
Montenegro	—	—	—	—	—	—	—	110
Morocco	—	—	—	—	—	—	—	3,500
Mozambique	—	—	—	—	—	—	—	539
Netherlands	—	100	—	585	—	—	30	2,913
New Zealand	—	—	—	—	—	—	0	176
Nicaragua	—	121	—	—	—	—	0	66
Nigeria	—	0	—	—	—	—	0	187
Norway	—	—	—	—	—	—	—	633
Pakistan	—	—	—	—	—	—	0	—
Panama	—	2,932	—	4,390	—	—	0	264
Peru	—	1,627	—	20	—	—	1	180
Philippines	—	—	—	—	—	—	1	809
Portugal	—	—	—	—	—	—	0	875
Puerto Rico	—	276	—	1	—	—	0	—
Romania	—	—	—	—	—	—	0	281
Saudi Arabia	—	3	—	149	—	—	1	94
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	—	0	—	1,583	—	—	0	303
South Africa	—	—	—	24	—	—	0	350
Spain	—	—	—	75	—	—	20	2,731
Switzerland	—	—	—	—	—	—	0	—
Taiwan	—	0	—	0	—	—	1	0
Thailand	—	—	—	0	—	—	1	383
Trinidad and Tobago	—	781	—	0	—	—	0	1
Turkey	—	—	—	1	—	—	1	5,995
United Arab Emirates	—	0	—	6	—	—	0	580
United Kingdom	—	185	—	1	—	—	1	768
Venezuela	—	0	—	—	—	—	0	—
Other	—	1,969	—	3,951	—	—	5	5,178
Total	—	37,275	—	22,116	—	—	1,017	117,840

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-July 2022
(Thousand Barrels) — Continued

Destination	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
						Crude Oil	Products	Total
Argentina	209	298	0	16,562	16,562	—	78	78
Australia	3	47	1	3,933	9,809	28	19	46
Bahamas	12	15	3	13,303	13,763	2	63	65
Bahrain	—	1	—	2	2	—	0	0
Belgium	1	2,918	7	20,508	21,473	5	97	101
Belize	0	7	—	516	516	—	2	2
Brazil	1	2,136	6	82,373	99,622	81	389	470
Canada	924	2,239	49	104,793	174,444	329	494	823
Cayman Islands	5	7	0	1,622	1,622	—	8	8
Chile	272	655	0	56,975	57,095	1	269	269
China	6	79	6	81,202	120,066	183	383	566
Colombia	2	2,357	3	26,978	32,590	26	127	154
Costa Rica	270	107	0	12,891	12,891	—	61	61
Denmark	—	0	—	883	11,262	49	4	53
Dominican Republic	141	188	1	18,767	23,157	21	89	109
Ecuador	1	437	17	23,248	23,248	—	110	110
Egypt	—	4	—	10,492	10,492	—	49	49
El Salvador	0	160	0	9,395	9,395	—	44	44
Finland	—	5	—	5,249	5,249	—	25	25
France	—	558	0	7,690	46,974	185	36	222
Germany	19	19	3	665	22,462	103	3	106
Ghana	—	3	—	1,740	1,740	—	8	8
Gibraltar	—	—	—	448	448	—	2	2
Greece	—	1	—	2,490	2,490	—	12	12
Guatemala	0	151	—	21,467	21,467	—	101	101
Honduras	85	93	0	14,566	14,566	—	69	69
Hong Kong	—	7	0	9	9	—	0	0
India	2	669	3	41,075	102,755	291	194	485
Indonesia	4	8	0	17,184	17,814	3	81	84
Ireland	—	0	1	591	6,928	30	3	33
Israel	—	331	0	1,902	1,902	—	9	9
Italy	0	7	0	5,285	45,077	188	25	213
Jamaica	0	38	0	4,331	4,331	—	20	20
Japan	10	93	36	91,433	96,498	24	431	455
Korea, South	2	44	2	37,379	104,610	317	176	493
Lebanon	—	2	—	239	239	—	1	1
Mexico	645	5,399	214	247,126	247,126	—	1,166	1,166
Montenegro	—	—	—	110	110	—	1	1
Morocco	—	0	—	13,487	13,487	—	64	64
Mozambique	—	1	—	540	540	—	3	3
Netherlands	4	244	2	38,675	109,525	334	182	517
New Zealand	100	5	—	284	284	—	1	1
Nicaragua	—	37	—	2,220	3,642	7	10	17
Nigeria	1	712	—	5,477	5,477	—	26	26
Norway	—	1	0	8,436	11,321	14	40	53
Pakistan	—	1	0	15	15	—	0	0
Panama	225	164	0	29,433	30,555	5	139	144
Peru	0	555	1	31,827	34,446	12	150	162
Philippines	—	7	1	1,289	1,289	—	6	6
Portugal	—	0	—	6,022	9,611	17	28	45
Puerto Rico	166	138	0	1,689	1,689	—	8	8
Romania	—	2	—	283	283	—	1	1
Saudi Arabia	0	35	0	2,915	2,915	—	14	14
Serbia (Excludes Kosovo) ..	—	—	—	—	—	—	—	—
Singapore	1	80	0	22,373	91,288	325	106	431
South Africa	0	262	—	3,387	3,387	—	16	16
Spain	—	14	—	10,128	48,651	182	48	229
Switzerland	—	1	0	4,231	4,959	3	20	23
Taiwan	2	32	1	2,783	41,283	182	13	195
Thailand	0	54	1	449	14,668	67	2	69
Trinidad and Tobago	—	64	0	4,992	4,992	—	24	24
Turkey	1	181	—	16,311	16,311	—	77	77
United Arab Emirates	6	243	0	1,194	1,194	—	6	6
United Kingdom	1	108	0	19,325	85,737	313	91	404
Venezuela	—	45	0	60	60	—	0	0
Other	97	544	28	46,893	69,727	107	220	330
Total	3,218	22,613	386	1,260,140	1,988,140	3,434	5,944	9,378

— = Not Applicable.

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² EIA is unable to report exports of renewable diesel fuel and other biofuels because of limitations of product classification information available in export data from the U.S. Census Bureau.

³ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, July 2022
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins ²	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,141	-6	-	289	-	0	0	9	35	44
Algeria	51	-	-	55	-	-	-	-	-	-
Angola	44	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	2	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	385	-	-	150	-	-	-	-	-	-
Kuwait	23	-	-	1	-	-	-	-	-	-
Libya	54	-	-	0	-	0	0	-	-	-
Nigeria	94	-8	-	-	-	-	-	-	9	9
Saudi Arabia	458	0	-	58	-	-	-	-	19	19
United Arab Emirates	32	-	-	25	-	0	0	9	7	16
Venezuela	-	0	-	-	-	-	-	-	-	-
Non-OPEC	1,667	-2,085	17	85	-	-654	-654	79	363	441
Argentina	72	-	-	-6	-	-11	-11	-	12	12
Aruba	-	-	-	-	-	-2	-2	-	-	-
Australia	-69	-19	-	0	-	-	-	0	-	0
Bahamas	-	-1	-	-5	-	-31	-31	-	0	0
Bahrain	-	-	-	0	-	-	-	-	-	-
Belgium	-	-23	-	11	-	31	31	-	1	1
Brazil	153	-57	-	-20	-	-49	-49	-	22	22
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,360	-124	17	-37	-	-18	-18	44	34	77
Chad	-	-	-	-	-	-	-	-	-	-
China	-261	-292	-	0	-	-	-	-	0	0
Colombia	251	-2	-	-42	-	-54	-54	-	-	-
Denmark	-43	-	-	-	-	-	-	-	-	-
Dominican Republic	-32	-36	-	0	-	-14	-14	-	-	-
Ecuador	125	-43	-	-7	-	0	0	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-21	-	-	-	1	1	-	0	0
France	-185	-9	-	-1	-	23	23	-	8	8
Germany	-161	-4	-	0	-	0	0	0	2	2
Guatemala	9	-13	-	0	-	-24	-24	-	0	0
Honduras	-	-21	-	0	-	-9	-9	-	-	-
India	-203	-102	-	0	-	-	-	-	74	74
Indonesia	-	-23	-	0	-	-	-	-	-	-
Italy	-305	-	-	29	-	7	7	-	5	5
Japan	-	-363	-	-17	-	10	10	0	10	10
Korea, South	-368	-119	-	0	-	10	10	0	25	25
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-24	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	18	-	-	-	-	5	5
Mexico	737	-202	-	61	-	-395	-395	0	-28	-28
Netherlands	-424	-72	-	27	-	9	9	10	24	34
Norway	21	-36	-	-2	-	7	7	-	15	15
Oman	-	-	-	0	-	-	-	-	2	2
Panama	-	-7	-	0	-	-13	-13	-	-	-
Portugal	-	-14	-	-	-	-	-	-	27	27
Puerto Rico	-	0	-	0	-	0	0	-	-	-
Qatar	-	-	-	18	-	-	-	-	0	0
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-178	-17	-	11	-	-	-	-	32	32
Sweden	-	-42	-	-	-	1	1	-	14	14
Trinidad and Tobago	29	0	-	0	-	0	0	-	-	-
United Kingdom	-311	-36	-	0	-	6	6	25	12	37
Vietnam	-	-	-	0	-	-	-	-	-	-
Virgin Islands, U.S.	-	-1	-	-	-	-3	-3	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-526	-386	0	47	-	-136	-136	0	67	67
Total	2,808	-2,091	17	375	-	-654	-654	88	398	485
Persian Gulf⁵	899	0	-	253	-	0	0	9	26	35

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, July 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-5	-	-	-	0	-	-	-	0	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	0	-	-	-	0	-	-
Saudi Arabia	-2	-	-	-	0	-	-	-	0	-	-
United Arab Emirates	-3	-	-	-	0	-	-	-	0	-	-
Venezuela	-	-	-	-	0	-	-	-	0	-	-
Non-OPEC	-78	-10	19	-	-1,154	-105	-103	-	-1,362	-	0
Argentina	-	-	-	-	-95	-	-19	-	-114	-	-
Aruba	0	-	-	-	-1	-	-	-	-1	-	-
Australia	0	-	-	-	0	-	0	-	0	-	-
Bahamas	-	-	-	-	-8	-1	-15	-	-24	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	-	-	-	-10	-	-1	-	-10	-	-
Brazil	0	-	-	-	-269	1	-	-	-268	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-32	-9	-	-	157	-11	-5	-	141	-	0
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	-	-	-	0	-	-	-	0	-	-
Colombia	0	-	-	-	-10	-	-	-	-10	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-	-22	-	-14	-	-36	-	-
Ecuador	0	-	-	-	-46	-	-	-	-46	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	0	-	-	-	-	-	-	-	-	-	-
Germany	-	0	-	-	0	-	-	-	0	-	-
Guatemala	-	-	-	-	-19	-16	-	-	-35	-	-
Honduras	-	-	-	-	-7	-31	-	-	-38	-	-
India	0	-	-	-	0	-	-	-	0	-	-
Indonesia	0	-	-	-	0	-	-	-	0	-	-
Italy	0	-	-	-	-	-	-	-	-	-	-
Japan	0	-	-	-	0	-	-	-	0	-	-
Korea, South	-7	1	-	-	1	-	-	-	1	-	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-4	0	-	-	-274	-	0	-	-274	-	-
Netherlands	-9	-	-	-	-21	-	-5	-	-26	-	-
Norway	-	-1	-	-	-	-	-	-	-	-	-
Oman	-3	-	-	-	-	-	-	-	-	-	-
Panama	-	-	-	-	-73	-13	-12	-	-97	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	-	0	-	-	-	0	-	-
Qatar	0	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-2	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	0	-	-	-	-	-	-14	-	-14	-	-
United Kingdom	-3	-	-	-	-35	-	-	-	-35	-	-
Vietnam	-	-	-	-	0	-	-	-	0	-	-
Virgin Islands, U.S.	-	-	-	-	-32	-	-6	-	-38	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-18	-1	19	-	-390	-34	-12	-	-438	-	0
Total	-83	-10	19	-	-1,155	-105	-103	-	-1,362	-	0
Persian Gulf⁵	-5	-	-	-	0	-	-	-	0	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, July 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks ²		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	-	0	-	5	-	-	0	-11
Algeria	-	-	-	0	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-5
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-6
Saudi Arabia	-	0	-	5	-	-	0	0
United Arab Emirates	-	0	-	-	-	-	0	0
Venezuela	-	-	-	-	-	-	0	-
Non-OPEC	-	-63	15	101	15	4	2	-462
Argentina	-	-2	-	-	-	1	0	7
Aruba	-	-2	-	-	-	-	-	-
Australia	-	0	-	-	-	-	0	-8
Bahamas	-	-7	-	-17	-	-	-	-
Bahrain	-	-	-	-	-	-	0	-
Belgium	-	-	-	-	-	-	0	-3
Brazil	-	-10	-	10	-	-	0	-17
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-	-19	8	17	3	3	0	-28
Chad	-	-	-	-	-	-	-	-
China	-	10	-	0	-	-	1	-72
Colombia	-	0	-	17	-	-	0	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-6	-	-3	-	-	0	-6
Ecuador	-	-	-	4	-	-	0	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	2	0	0	-9
Germany	-	-	-	0	-	-	0	0
Guatemala	-	-3	-	-	-	-	0	-9
Honduras	-	-1	-	-	-	-	0	-
India	-	-	-	0	-	-	0	-19
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-17
Japan	-	28	-	0	-	-	0	-71
Korea, South	-	79	7	0	3	-	0	0
Latvia	-	0	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	1	-
Mexico	-	-76	-	64	3	-	0	-54
Netherlands	-	-	-	-11	-	-	0	-14
Norway	-	-	-	-	-	-	-	-4
Oman	-	-	-	-	-	-	-	-3
Panama	-	-13	-	5	-	-	-	-
Portugal	-	-	-	-	-	-	-	-6
Puerto Rico	-	0	-	0	-	-	0	-
Qatar	-	-	-	-	-	-	0	-3
Russia	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	0	-5
Sweden	-	-	-	-	-	-	-	0
Trinidad and Tobago	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	5	1	-	0	-9
Vietnam	-	-	-	-	-	-	0	0
Virgin Islands, U.S.	-	-8	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-	-33	0	10	3	0	0	-112
Total	-	-63	15	107	15	4	2	-473
Persian Gulf⁵	-	0	-	5	-	-	0	-8

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, July 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products ⁴	Total Crude Oil and Products ⁴
OPEC	0	3	0	320	1,462
Algeria	—	—	—	55	106
Angola	—	0	—	0	44
Congo (Brazzaville)	—	—	—	—	—
Equatorial Guinea	—	0	—	2	2
Gabon	—	0	—	0	0
Iran	—	—	—	—	—
Iraq	—	0	—	150	536
Kuwait	—	0	—	-4	18
Libya	—	0	—	0	54
Nigeria	—	-3	—	-8	85
Saudi Arabia	—	0	—	80	539
United Arab Emirates	0	7	—	46	78
Venezuela	—	0	0	0	0
Non-OPEC	60	-72	-2	-4,029	-2,362
Argentina	0	-2	0	-116	-43
Aruba	—	0	—	-5	-5
Australia	—	0	—	-27	-96
Bahamas	0	0	0	-85	-85
Bahrain	—	2	—	2	2
Belgium	0	-18	0	-11	-11
Brazil	—	-12	0	-400	-247
Brunei	—	0	—	0	0
Cameroon	—	0	—	0	0
Canada	60	-2	0	58	3,419
Chad	—	—	—	—	—
China	0	0	0	-353	-614
Colombia	1	-30	0	-119	132
Denmark	—	0	—	0	-43
Dominican Republic	-1	-1	—	-103	-135
Ecuador	0	-2	0	-94	30
Estonia	—	—	—	—	—
Finland	—	0	—	-19	-19
France	—	-3	0	12	-173
Germany	0	0	0	-1	-162
Guatemala	—	-1	—	-85	-75
Honduras	—	0	—	-70	-70
India	—	0	0	-48	-251
Indonesia	0	5	0	-18	-18
Italy	2	0	—	25	-280
Japan	0	0	0	-403	-403
Korea, South	0	13	0	14	-354
Latvia	—	0	—	0	0
Lithuania	—	—	0	0	-24
Malaysia	—	0	0	24	24
Mexico	-2	-21	-2	-929	-192
Netherlands	0	0	0	-62	-486
Norway	—	0	—	-21	0
Oman	—	0	—	-4	-4
Panama	—	-1	—	-126	-126
Portugal	—	—	—	7	7
Puerto Rico	0	-1	—	-1	-1
Qatar	—	13	—	29	29
Russia	—	—	—	—	—
Spain	0	0	—	21	-157
Sweden	—	0	—	-28	-28
Trinidad and Tobago	—	-1	—	-15	14
United Kingdom	—	-2	0	-36	-347
Vietnam	—	0	—	0	0
Virgin Islands, U.S.	0	0	—	-50	-50
Yemen	—	0	—	0	0
Other	0	-8	0	-992	-1,520
Total	60	-69	-2	-3,708	-900
Persian Gulf⁵	0	22	—	303	1,202

-- = Not Applicable.

— = No Data Reported.

1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

2 Quantities are gross imports because exports are excluded from EIA data.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.

5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2022
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins ²	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	987	-6	-	167	-	-4	-4	6	33	40
Algeria	7	2	-	39	-	0	0	-	-	-
Angola	42	0	-	-	-	0	0	-	3	3
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	2	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	2	-	-	-	-	-	-	-	-	-
Iraq	250	-	-	54	-	-	-	-	-	-
Kuwait	24	0	-	11	-	0	0	0	0	0
Libya	75	-	-	0	-	0	0	-	-	-
Nigeria	92	-10	-	2	-	-7	-7	-	6	6
Saudi Arabia	476	0	-	44	-	3	3	5	23	28
United Arab Emirates	17	-	-	16	-	0	0	1	1	2
Venezuela	-	0	-	0	-	0	0	0	0	0
Non-OPEC	1,904	-2,214	16	37	-	-731	-731	153	304	457
Argentina	58	-1	-	-7	-	-3	-3	-	6	6
Aruba	-	0	-	0	-	-1	-1	-	0	0
Australia	-24	-11	-	0	-	0	0	0	0	0
Bahamas	-2	-1	-	-1	-	-4	-4	-	3	3
Bahrain	-	-	-	0	-	0	0	-	-	-
Belgium	-5	-61	-	-10	-	11	11	2	6	8
Brazil	49	-53	-	-66	-	-32	-32	-	7	7
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,493	-95	16	-49	-	-11	-11	73	23	96
Chad	-	-	-	-	-	-	-	-	-	-
China	-183	-284	-	0	-	0	0	-	0	0
Colombia	211	-3	-	-31	-	-33	-33	-	0	0
Denmark	-49	-	-	-	-	0	0	0	1	1
Dominican Republic	-21	-39	-	0	-	-12	-12	0	-1	-1
Ecuador	127	-36	-	8	-	-18	-18	-	0	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-21	-	-2	-	0	0	-	21	21
France	-185	-22	-	5	-	8	8	5	10	15
Germany	-103	-1	-	0	-	2	2	0	3	3
Guatemala	3	-11	-	0	-	-41	-41	0	0	0
Honduras	-	-18	-	0	-	-16	-16	-	0	0
India	-291	-128	-	2	-	1	1	2	70	71
Indonesia	-3	-81	-	0	-	-	-	-	-	-
Italy	-188	-3	-	7	-	8	8	-	18	18
Japan	-24	-373	-	-6	-	1	1	0	4	4
Korea, South	-317	-150	-	-2	-	12	12	0	11	11
Latvia	-	-	-	0	-	-	-	-	-	-
Lithuania	-7	-	-	0	-	3	3	-	3	3
Malaysia	-	0	-	3	-	0	0	-	1	1
Mexico	660	-202	0	51	-	-478	-478	0	-22	-22
Netherlands	-334	-86	-	-40	-	10	10	31	21	51
Norway	12	-32	-	-2	-	1	1	4	8	11
Oman	-	0	-	0	-	-	-	-	1	1
Panama	-5	-7	-	0	-	-21	-21	0	-1	-1
Portugal	-17	-24	-	-	-	2	2	0	20	20
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Qatar	-	0	-	3	-	0	0	0	0	0
Russia	35	0	-	170	-	2	2	-	11	11
Spain	-182	-31	-	2	-	5	5	1	29	30
Sweden	-30	-40	-	-2	-	1	1	-	7	7
Trinidad and Tobago	41	1	-	0	-	-1	-1	-	-	-
United Kingdom	-282	-50	-	-1	-	4	4	36	15	51
Vietnam	-9	-8	-	0	-	-	-	-	0	0
Virgin Islands, U.S.	-	-1	-	0	-	-3	-3	0	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-524	-342	0	5	-	-127	-127	-1	29	31
Total	2,891	-2,220	16	204	-	-734	-734	159	338	497
Persian Gulf⁵	771	0	-	128	-	3	3	6	24	31

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Biofuels				Distillate Fuel Oil					Kerosene	Finished Aviation Gasoline
	Fuel Ethanol	Biodiesel	Renewable Diesel Fuel ²	Other Biofuels ^{2,3}	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total		
OPEC	-6	0	-	-	15	-1	-	-	14	0	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	0	-	-	-	0	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	0	-	-	-	0	-	-
Kuwait	0	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-3	-	-	-	3	-1	-	-	2	0	-
Saudi Arabia	-2	0	-	-	11	-	-	-	11	0	-
United Arab Emirates	-2	-	-	-	0	-	-	-	0	0	-
Venezuela	0	-	-	-	0	-	-	-	0	-	-
Non-OPEC	-96	-8	18	0	-864	-89	-96	1	-1,048	-6	1
Argentina	0	0	-	-	-50	-3	-9	-	-61	0	-
Aruba	0	-	-	-	-1	-	0	-	-1	0	-
Australia	0	0	-	-	0	-	0	-	0	-	-
Bahamas	0	0	-	-	-15	-1	-8	-	-24	0	-
Bahrain	0	-	-	-	-	-	-	-	-	0	-
Belgium	0	0	-	-	-1	-	0	-	-2	-	-
Brazil	-4	-	-	-	-134	-7	-6	-	-147	-3	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-30	-5	-	-	131	-7	-5	-	120	-1	0
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-	-	-1	-1	0	-	-1	0	-
Colombia	-1	-	-	-	-38	-1	-	-	-38	0	-
Denmark	-	-	-	-	-2	-	-	-	-2	-	-
Dominican Republic	0	-	-	-	-10	0	-9	-	-19	0	-
Ecuador	0	-	-	-	-36	-3	-2	1	-39	0	-
Estonia	-	-	-	-	-	-	-	-	-	-	0
Finland	-	-	-	0	-	-	-	-	-	-	-
France	0	-	-	-	-4	-1	-	-	-5	0	-
Germany	0	4	-	-	0	-	-	-	0	-	-
Guatemala	-	-	-	-	-22	-8	-6	-	-36	0	-
Honduras	0	-	-	-	-11	-11	-2	-	-24	-1	-
India	-9	0	-	-	-1	0	-	-	-1	-	-
Indonesia	0	0	-	-	0	-	-	-	0	-	-
Italy	0	1	-	-	-	-	-	-	-	-	-
Japan	0	-	-	-	0	-	-	-	0	0	-
Korea, South	-14	1	-	-	3	4	-	-	6	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	-	-	-	-	-	-	-
Malaysia	0	0	-	-	-	-	-	-	-	0	-
Mexico	-5	0	-	-	-278	-4	-3	-	-285	0	-
Netherlands	-8	-1	0	-	2	-3	-6	-	-7	0	1
Norway	-	0	-	-	-1	-	-	-	-1	-	-
Oman	-1	-	-	-	0	-	-	-	0	-	-
Panama	0	-	-	-	-58	-8	-6	-	-72	0	-
Portugal	-	-	-	-	1	-	-	-	1	-	-
Puerto Rico	0	-	-	-	-3	-1	0	-	-4	0	-
Qatar	0	-	-	-	14	-	-	-	14	-	-
Russia	-	-	-	-	10	-	1	-	11	-	-
Spain	0	2	-	-	-4	-	-	-	-4	-	-
Sweden	-1	-	-	-	0	-1	-	-	-1	-	-
Trinidad and Tobago	0	-	-	-	-8	-	-10	-	-18	-	-
United Kingdom	-6	-	-	-	-24	-3	-	-	-27	0	-
Vietnam	-	-	-	-	0	-	-	-	0	-	-
Virgin Islands, U.S.	0	-	-	-	-9	-2	-3	-	-15	0	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-17	-10	18	0	-314	-28	-22	0	-366	-1	0
Total	-103	-8	18	0	-850	-90	-96	1	-1,034	-6	1
Persian Gulf⁵	-3	0	-	-	26	-	-	-	26	0	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Aviation Gasoline Blending Components	Kerosene- Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks ²		Waxes	Petroleum Coke
					Naphtha	Other Oils		
OPEC	—	9	—	13	0	—	0	-5
Algeria	—	—	—	4	—	—	—	—
Angola	—	—	—	—	0	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—
Equatorial Guinea	—	0	—	0	—	—	—	—
Gabon	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—
Iraq	—	—	—	3	—	—	0	—
Kuwait	—	6	—	—	—	—	0	-1
Libya	—	—	—	—	—	—	—	—
Nigeria	—	0	—	—	—	—	0	-1
Saudi Arabia	—	2	—	6	—	—	0	0
United Arab Emirates	—	1	—	0	—	—	0	-3
Venezuela	—	0	—	—	—	—	0	—
Non-OPEC	—	-59	10	107	12	3	1	-540
Argentina	—	-1	—	0	—	0	0	2
Aruba	—	-1	—	—	—	—	—	—
Australia	—	0	—	0	—	—	0	-7
Bahamas	—	-3	—	-14	—	—	—	—
Bahrain	—	—	—	—	—	—	0	—
Belgium	—	—	—	-1	—	—	0	-2
Brazil	—	-5	—	20	—	—	0	-51
Brunei	—	—	—	—	—	—	—	—
Cameroon	—	—	—	0	—	—	—	0
Canada	—	-12	4	8	3	3	0	-17
Chad	—	—	—	—	—	—	—	—
China	—	4	—	0	—	—	1	-96
Colombia	—	-3	—	14	—	—	0	0
Denmark	—	—	—	0	—	—	0	-2
Dominican Republic	—	-8	—	-3	—	—	0	-4
Ecuador	—	0	—	3	—	—	0	-4
Estonia	—	—	—	—	—	—	0	—
Finland	—	—	—	—	—	—	0	-1
France	—	—	—	0	0	0	0	-4
Germany	—	—	0	1	—	—	0	-1
Guatemala	—	-2	—	0	—	—	0	-10
Honduras	—	-2	—	0	—	—	0	-7
India	—	3	—	0	—	—	0	-52
Indonesia	—	—	—	—	—	—	0	0
Italy	—	—	—	0	—	—	0	-21
Japan	—	15	1	0	1	—	0	-48
Korea, South	—	70	5	-6	1	—	0	-1
Latvia	—	0	—	—	—	—	—	—
Lithuania	—	—	—	5	—	—	0	—
Malaysia	—	—	—	—	—	—	1	0
Mexico	—	-58	0	86	3	—	-1	-56
Netherlands	—	0	0	2	—	—	0	-14
Norway	—	—	—	2	—	—	—	-3
Oman	—	—	—	—	—	—	—	-3
Panama	—	-14	—	-20	—	—	0	-1
Portugal	—	—	—	—	—	—	0	-4
Puerto Rico	—	-1	—	0	—	—	0	—
Qatar	—	2	—	—	0	—	0	-1
Russia	—	—	—	26	—	—	0	0
Spain	—	—	0	3	0	—	0	-13
Sweden	—	—	—	1	—	—	0	0
Trinidad and Tobago	—	-4	—	0	—	—	0	0
United Kingdom	—	-1	—	2	0	0	0	-3
Vietnam	—	0	—	—	—	—	0	0
Virgin Islands, U.S.	—	-3	—	-16	—	—	—	—
Yemen	—	—	—	—	—	—	—	—
Other	—	-35	0	-6	4	0	0	-116
Total	—	-51	10	120	12	3	1	-546
Persian Gulf⁶	—	11	—	8	0	—	0	-6

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2022
(Thousand Barrels per Day) — Continued

Country of Origin	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products ⁴	Total Crude Oil and Products ⁴
OPEC	0	1	0	223	1,209
Algeria	—	0	—	46	53
Angola	0	0	—	3	46
Congo (Brazzaville)	—	—	—	—	0
Equatorial Guinea	—	0	—	2	2
Gabon	—	0	—	0	0
Iran	—	—	—	—	2
Iraq	—	0	—	57	307
Kuwait	—	0	—	15	40
Libya	—	0	—	0	75
Nigeria	0	-3	—	-14	77
Saudi Arabia	0	0	0	93	569
United Arab Emirates	0	5	0	20	38
Venezuela	—	0	0	0	0
Non-OPEC	38	-61	-2	-4,065	-2,161
Argentina	-1	-1	0	-68	-10
Aruba	—	0	—	-4	-4
Australia	0	0	0	-19	-43
Bahamas	0	0	0	-45	-47
Bahrain	—	2	—	2	2
Belgium	0	-14	0	-70	-75
Brazil	0	-10	0	-344	-296
Brunei	—	0	—	0	0
Cameroon	—	0	—	0	0
Canada	46	-1	0	74	3,567
Chad	—	—	—	—	—
China	0	0	0	-378	-561
Colombia	1	-11	0	-107	104
Denmark	—	0	—	-3	-52
Dominican Republic	-1	-1	0	-89	-109
Ecuador	0	-2	0	-87	39
Estonia	—	0	—	0	0
Finland	—	0	—	-3	-3
France	—	-2	0	-4	-190
Germany	0	0	0	8	-95
Guatemala	0	-1	—	-101	-98
Honduras	0	0	0	-69	-69
India	0	-3	0	-116	-407
Indonesia	0	3	0	-78	-81
Italy	0	0	0	10	-177
Japan	0	0	0	-404	-428
Korea, South	0	11	0	-55	-372
Latvia	—	0	—	-1	-1
Lithuania	—	0	0	12	5
Malaysia	0	0	0	3	3
Mexico	-3	-25	-1	-997	-337
Netherlands	0	1	0	-92	-426
Norway	—	0	0	-24	-12
Oman	—	0	—	-3	-3
Panama	-1	-1	0	-138	-143
Portugal	—	0	—	-6	-23
Puerto Rico	-1	-1	0	-8	-8
Qatar	—	10	—	28	28
Russia	0	0	—	219	254
Spain	1	0	—	-6	-187
Sweden	—	0	0	-35	-66
Trinidad and Tobago	—	0	0	-23	19
United Kingdom	0	-1	0	-31	-312
Vietnam	0	0	0	-8	-16
Virgin Islands, U.S.	0	0	—	-38	-38
Yemen	—	0	—	0	0
Other	-3	-14	-1	-967	-1,493
Total	38	-60	-2	-3,842	-951
Persian Gulf⁵	0	17	0	215	986

— = Not Applicable.

— = No Data Reported.

1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

2 Quantities are gross imports because exports are excluded from EIA data.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

4 Includes gross imports of refinery olefins, renewable diesel, other biofuels, and petrochemical feedstocks. See footnote 2.

5 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, July 2022
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	7,451	109,099	701,909	23,644	50,117	892,220
Refinery	6,057	14,246	45,651	2,510	22,771	91,235
Tank Farms and Pipelines (Includes Cushing, OK)	1,394	94,853	188,252	21,134	23,784	329,417
Cushing, Oklahoma	--	24,956	--	--	--	24,956
Leases	--	--	--	--	--	--
Strategic Petroleum Reserve ¹	--	--	468,006	--	--	468,006
Alaskan In Transit	--	--	--	--	3,562	3,562
Total Stocks, All Oils (excluding Crude Oil)²	124,885	179,128	371,339	24,909	90,997	791,257
Refinery	11,874	49,121	119,569	9,982	47,823	238,369
Bulk Terminal	85,725	90,933	190,827	8,369	38,274	414,127
Pipeline	26,996	37,350	59,209	6,364	4,686	134,605
Natural Gas Processing Plant	290	1,724	1,734	194	214	4,156
Natural Gas Liquids	9,924	51,834	133,453	7,440	3,750	206,402
Refinery	354	3,320	5,907	352	1,486	11,419
Bulk Terminal	7,083	30,032	102,008	2,470	2,050	143,644
Pipeline	2,197	16,758	23,804	4,424	--	47,183
Natural Gas Processing Plant	290	1,724	1,734	194	214	4,156
Ethane	1,126	6,484	38,496	1,404	--	47,510
Refinery	--	--	20	--	--	20
Bulk Terminal	541	2,502	29,664	--	--	32,707
Pipeline	585	3,762	8,779	1,399	--	14,525
Natural Gas Processing Plant	--	220	33	5	--	258
Propane	6,635	19,347	34,422	2,448	1,278	64,130
Refinery	96	740	1,158	47	95	2,136
Bulk Terminal	5,109	14,159	26,442	863	1,132	47,705
Pipeline	1,279	3,633	6,685	1,444	--	13,041
Natural Gas Processing Plant	151	815	137	94	51	1,248
Normal Butane	1,696	14,232	39,577	2,426	2,029	59,960
Refinery	212	1,700	3,403	195	1,021	6,531
Bulk Terminal	1,200	11,126	32,988	1,604	908	47,826
Pipeline	243	1,149	2,848	591	--	4,831
Natural Gas Processing Plant	41	257	338	36	100	772
Isobutane	103	2,043	7,037	437	401	10,021
Refinery	46	493	1,003	105	367	2,014
Bulk Terminal	--	700	4,575	--	--	5,275
Pipeline	42	696	1,166	317	--	2,221
Natural Gas Processing Plant	15	154	293	15	34	511
Natural Gasoline	364	9,728	13,921	725	42	24,781
Refinery	--	387	323	5	3	718
Bulk Terminal	233	1,545	8,339	3	10	10,131
Pipeline	48	7,518	4,326	673	--	12,565
Natural Gas Processing Plant	83	278	933	44	29	1,367
Refinery Olefins	202	484	1,234	90	35	2,045
Refinery	202	484	1,234	90	35	2,045
Ethylene	--	--	0	--	--	0
Refinery	--	--	0	--	--	0
Propylene	107	345	766	1	10	1,229
Refinery	107	345	766	1	10	1,229
Normal Butylene	1	139	454	89	25	708
Refinery	1	139	454	89	25	708
Isobutylene	94	0	14	0	0	108
Refinery	94	0	14	0	0	108
Other Hydrocarbons	--	12	--	--	--	12
Refinery	--	12	--	--	--	12
Biofuels (Including Fuel Ethanol)²	7,946	10,960	5,787	616	5,240	30,548
Refinery	227	119	1,010	140	971	2,467
Bulk Terminal	7,719	10,841	4,777	476	4,269	28,081
Pipeline	--	--	--	--	--	--
Fuel Ethanol	7,273	9,888	4,180	381	2,442	24,165
Refinery	220	100	907	132	202	1,561
Bulk Terminal	7,053	9,788	3,273	249	2,240	22,604
Pipeline	--	--	--	--	--	--
Biodiesel	673	963	701	13	695	3,045
Refinery	7	19	103	8	8	145
Bulk Terminal	666	944	598	5	687	2,900
Pipeline	--	--	--	--	--	--
Renewable Diesel Fuel	--	83	809	206	2,051	3,148
Refinery	--	--	--	--	761	761
Bulk Terminal	--	83	809	206	1,290	2,387
Pipeline	--	--	--	--	--	--
Other Biofuels³	--	25	97	16	52	190
Refinery	--	--	--	--	--	--
Bulk Terminal	--	25	97	16	52	190
Pipeline	--	--	--	--	--	--

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, July 2022
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Unfinished Oils	3,484	14,305	48,055	2,847	19,025	87,716
Naphthas and Lighter	853	3,468	9,926	620	3,283	18,150
Refinery	837	3,437	8,798	620	3,059	16,751
Bulk Terminal	--	--	--	--	--	--
Kerosene and Light Gas Oils	376	2,395	9,363	637	2,996	15,767
Refinery	376	2,395	6,905	637	2,911	13,224
Bulk Terminal	--	--	2,458	--	85	2,543
Heavy Gas Oils	1,578	5,900	22,513	1,171	9,518	40,680
Refinery	1,554	5,417	19,225	1,171	8,221	35,588
Bulk Terminal	24	483	3,288	--	1,297	5,092
Residuum	677	2,542	6,253	419	3,228	13,119
Refinery	677	2,542	6,253	419	3,228	13,119
Bulk Terminal	--	--	--	--	--	--
Motor Gasoline Blending Components²	50,487	44,399	80,421	5,735	27,612	208,654
Refinery	3,182	12,584	27,888	2,707	13,286	59,647
Bulk Terminal	35,174	22,323	34,438	2,175	12,018	106,128
Pipeline	12,131	9,492	18,095	853	2,308	42,879
Reformulated - RBOB	14,214	5,495	13,420	--	13,777	46,906
Refinery	976	904	2,605	--	4,721	9,206
Bulk Terminal	9,619	3,247	4,860	--	7,606	25,332
Pipeline	3,619	1,344	5,955	--	1,450	12,368
Conventional	36,273	38,904	67,001	5,735	13,835	161,748
Refinery	2,206	11,680	25,283	2,707	8,565	50,441
Bulk Terminal	25,555	19,076	29,578	2,175	4,412	80,796
Pipeline	8,512	8,148	12,140	853	858	30,511
CBOB	28,428	31,947	35,702	4,440	7,270	107,787
Refinery	419	5,682	10,462	1,415	2,613	20,591
Bulk Terminal	19,619	18,196	13,374	2,172	3,799	57,160
Pipeline	8,390	8,069	11,866	853	858	30,036
GTAB	532	--	--	--	--	532
Refinery	--	--	--	--	--	--
Bulk Terminal	532	--	--	--	--	532
Pipeline	--	--	--	--	--	--
Other	7,313	6,957	31,299	1,295	6,565	53,429
Refinery	1,787	5,998	14,821	1,292	5,952	29,850
Bulk Terminal	5,404	880	16,204	3	613	23,104
Pipeline	122	79	274	--	--	475
Aviation Gasoline Blending Components	--	--	46	--	--	46
Refinery	--	--	46	--	--	46
Bulk Terminal	--	--	--	--	--	--
Finished Motor Gasoline	2,458	4,367	6,865	1,083	2,187	16,960
Refinery	26	876	2,729	661	747	5,039
Bulk Terminal	617	1,050	3,641	263	1,370	6,937
Pipeline	1,815	2,441	495	159	52	4,962
Reformulated	4	--	--	--	18	22
Refinery	--	--	--	--	18	18
Bulk Terminal	4	--	--	--	--	4
Pipeline	--	--	--	--	--	--
Reformulated (Blended with Fuel Ethanol)	4	--	--	--	18	22
Refinery	--	--	--	--	18	18
Bulk Terminal	4	--	--	--	--	4
Pipeline	--	--	--	--	--	--
Reformulated (Other)	--	--	--	--	--	--
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	--	--
Pipeline	--	--	--	--	--	--
Conventional	2,454	4,367	6,865	1,083	2,169	16,938
Refinery	26	876	2,729	661	747	5,039
Bulk Terminal	613	1,050	3,641	263	1,370	6,937
Pipeline	1,815	2,441	495	159	52	4,962
Conventional (Blended with Fuel Ethanol)	--	179	--	57	24	260
Refinery	--	--	--	54	--	54
Bulk Terminal	--	179	--	3	24	206
Pipeline	--	--	--	--	--	--
Ed55 and Lower	--	179	--	57	--	236
Refinery	--	--	--	54	--	54
Bulk Terminal	--	179	--	3	--	182
Pipeline	--	--	--	--	--	--
Greater than Ed55	--	--	--	--	24	24
Refinery	--	--	--	--	--	--
Bulk Terminal	--	--	--	--	24	24
Pipeline	--	--	--	--	--	--
Conventional (Other)	2,454	4,188	6,865	1,026	2,145	16,678
Refinery	26	876	2,729	607	747	4,985
Bulk Terminal	613	871	3,641	260	1,346	6,731
Pipeline	1,815	2,441	495	159	52	4,962

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, July 2022
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Finished Aviation Gasoline	180	161	590	8	212	1,151
Refinery	—	40	410	8	81	539
Bulk Terminal	180	121	180	—	131	612
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	10,689	7,660	12,420	714	9,749	41,232
Refinery	498	1,936	5,312	280	3,656	11,682
Bulk Terminal	4,613	3,817	3,215	277	5,194	17,116
Pipeline	5,578	1,907	3,893	157	899	12,434
Kerosene	428	114	533	2	5	1,082
Refinery	77	91	108	2	1	279
Bulk Terminal	341	23	404	—	4	772
Pipeline	10	—	21	—	—	31
Distillate Fuel Oil²	26,211	27,041	42,158	3,899	13,217	112,525
Refinery	1,691	6,102	15,188	1,646	4,914	29,541
Bulk Terminal	19,255	14,187	14,069	1,482	6,876	55,868
Pipeline	5,265	6,752	12,901	771	1,427	27,116
15 ppm sulfur and Under	24,458	26,510	35,876	3,685	12,289	102,817
Refinery	1,400	5,735	12,177	1,481	4,297	25,090
Bulk Terminal	18,178	14,150	11,247	1,433	6,656	51,663
Pipeline	4,880	6,625	12,452	771	1,336	26,064
Greater than 15 ppm to 500 ppm sulfur	668	194	1,386	164	250	2,662
Refinery	91	48	786	115	225	1,265
Bulk Terminal	572	25	472	49	1	1,119
Pipeline	5	121	128	—	24	278
Greater than 500 ppm sulfur	1,085	337	4,896	50	678	7,046
Refinery	200	319	2,225	50	392	3,186
Bulk Terminal	505	12	2,350	—	219	3,086
Pipeline	380	6	321	—	67	774
Residual Fuel Oil	4,692	1,125	17,864	225	5,200	29,106
Refinery	311	994	3,711	225	2,261	7,502
Bulk Terminal	4,381	131	14,153	—	2,939	21,604
Pipeline	—	—	—	—	—	—
Less than 0.31% Sulfur	365	160	761	28	1,220	2,534
Refinery	14	148	73	28	34	297
Bulk Terminal	351	12	688	—	1,186	2,237
0.31% to 1.00% Sulfur	921	239	5,179	37	668	7,044
Refinery	95	236	1,171	37	326	1,865
Bulk Terminal	826	3	4,008	—	342	5,179
Greater than 1.00% Percent Sulfur	3,406	726	11,924	160	3,312	19,528
Refinery	202	610	2,467	160	1,901	5,340
Bulk Terminal	3,204	116	9,457	—	1,411	14,188
Petrochemical Feedstocks	—	527	2,095	—	2	2,624
Refinery	—	527	2,095	—	2	2,624
Naphtha for Petrochemical Feedstock Use	—	419	1,456	—	2	1,877
Other Oils for Petrochemical Feedstock Use	—	108	639	—	—	747
Special Naphthas	41	157	850	—	26	1,074
Refinery	27	94	839	—	26	986
Bulk Terminal	14	63	11	—	—	88
Lubricants	1,476	669	8,562	—	764	11,471
Refinery	907	174	5,063	—	529	6,673
Bulk Terminal	569	495	3,499	—	235	4,798
Waxes	181	57	269	—	—	507
Refinery	181	57	269	—	—	507
Petroleum Coke	—	2,797	3,983	174	1,538	8,492
Refinery	—	2,797	3,983	174	1,538	8,492
Asphalt and Road Oil	6,409	12,322	5,591	2,054	2,355	28,731
Refinery	671	4,986	2,071	828	773	9,329
Bulk Terminal	5,738	7,336	3,520	1,226	1,582	19,402
Miscellaneous Products	76	137	563	22	80	878
Refinery	76	137	525	22	80	840
Bulk Terminal	—	—	38	—	—	38
Pipeline	—	—	—	—	—	—
Total Stocks, All Oils	132,336	288,227	1,073,248	48,553	141,114	1,683,477

-- = Not Applicable.

- = No Data Reported.

1 Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

2 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D. Includes stocks held at biofuel production facilities.

3 Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, July 2022
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	4	639	643	10,595	27,761	38,356	418
Connecticut	—	—	—	755	33	788	3
Delaware	—	—	—	570	496	1,066	69
District of Columbia	—	—	—	—	—	—	—
Florida	—	358	358	—	7,011	7,011	—
Georgia	—	72	72	—	2,437	2,437	—
Maine	—	—	—	-50	400	350	36
Maryland	—	—	—	808	94	902	15
Massachusetts	3	—	3	825	—	825	1
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	—	—	4,656	7,186	11,842	14
New York	1	—	1	417	1,456	1,873	123
North Carolina	—	47	47	—	2,118	2,118	46
Pennsylvania	—	—	—	466	4,127	4,593	63
Rhode Island	—	—	—	617	19	636	—
South Carolina	—	130	130	—	1,089	1,089	24
Vermont	—	—	—	—	14	14	2
Virginia	—	6	6	1,531	1,133	2,664	22
West Virginia	—	26	26	—	148	148	—
PAD District 2	—	1,926	1,926	4,151	30,756	34,907	114
Illinois	—	40	40	2,294	4,456	6,750	81
Indiana	—	91	91	640	3,769	4,409	1
Iowa	—	35	35	—	1,423	1,423	—
Kansas	—	337	337	—	2,399	2,399	11
Kentucky	—	100	100	365	1,341	1,706	—
Michigan	—	10	10	74	2,984	3,058	—
Minnesota	—	205	205	0	2,340	2,340	—
Missouri	—	148	148	269	786	1,055	—
Nebraska	—	52	52	—	438	438	—
North Dakota	—	44	44	—	599	599	—
Ohio	—	488	488	—	3,838	3,838	14
Oklahoma	—	268	268	—	3,113	3,113	—
South Dakota	—	17	17	—	245	245	—
Tennessee	—	30	30	—	2,158	2,158	—
Wisconsin	—	61	61	508	867	1,375	7
PAD District 3	—	6,370	6,370	7,465	54,861	62,326	512
Alabama	—	68	68	8	1,257	1,265	2
Arkansas	—	151	151	—	1,122	1,122	—
Louisiana	—	528	528	895	11,897	12,792	88
Mississippi	—	1,538	1,538	16	2,733	2,749	—
New Mexico	—	21	21	26	624	650	—
Texas	—	4,064	4,064	6,520	37,228	43,748	422
PAD District 4	—	924	924	—	4,882	4,882	2
Colorado	—	83	83	—	1,482	1,482	—
Idaho	—	52	52	—	299	299	—
Montana	—	270	270	—	988	988	—
Utah	—	109	109	—	1,532	1,532	2
Wyoming	—	410	410	—	581	581	—
PAD District 5	18	2,117	2,135	12,327	12,977	25,304	5
Alaska	—	196	196	—	325	325	4
Arizona	—	74	74	922	300	1,222	—
California	18	453	471	11,107	6,365	17,472	1
Hawaii	—	617	617	—	517	517	—
Nevada	—	170	170	13	409	422	—
Oregon	—	71	71	—	1,426	1,426	—
Washington	—	536	536	285	3,635	3,920	—
U.S. Total	22	11,976	11,998	34,538	131,237	165,775	1,051

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, July 2022
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	19,578	663	705	20,946	4,692	5,356
Connecticut	1,077	—	—	1,077	8	—
Delaware	637	33	76	746	345	11
District of Columbia	—	—	—	—	—	—
Florida	2,710	154	—	2,864	928	182
Georgia	1,541	—	—	1,541	92	11
Maine	680	1	1	682	25	—
Maryland	686	—	—	686	123	—
Massachusetts	703	10	1	714	147	—
New Hampshire	329	—	—	329	5	412
New Jersey	3,329	153	293	3,775	2,530	74
New York	1,788	—	96	1,884	153	1,065
North Carolina	969	—	—	969	—	152
Pennsylvania	2,680	—	39	2,719	199	2,903
Rhode Island	437	—	—	437	—	—
South Carolina	673	—	—	673	67	425
Vermont	5	—	—	5	—	—
Virginia	1,210	257	199	1,666	70	5
West Virginia	124	55	—	179	—	92
PAD District 2	19,885	73	331	20,289	1,125	15,714
Illinois	3,182	—	5	3,187	347	989
Indiana	2,202	—	86	2,288	170	301
Iowa	1,570	—	—	1,570	1	228
Kansas	1,921	—	—	1,921	40	9,404
Kentucky	869	—	—	869	—	236
Michigan	1,317	—	—	1,317	116	3,283
Minnesota	1,407	—	85	1,492	162	276
Missouri	687	16	2	705	—	82
Nebraska	496	—	—	496	—	176
North Dakota	647	—	—	647	42	45
Ohio	1,779	9	88	1,876	113	563
Oklahoma	1,717	48	65	1,830	62	76
South Dakota	487	—	—	487	—	7
Tennessee	993	—	—	993	61	3
Wisconsin	611	—	—	611	11	45
PAD District 3	23,424	1,258	4,575	29,257	17,864	27,737
Alabama	926	5	61	992	292	18
Arkansas	802	—	—	802	—	48
Louisiana	4,903	426	1,033	6,362	8,381	2,351
Mississippi	849	544	120	1,513	461	1,440
New Mexico	250	—	—	250	42	4
Texas	15,694	283	3,361	19,338	8,688	23,876
PAD District 4	2,914	164	50	3,128	225	1,004
Colorado	593	—	—	593	35	30
Idaho	167	—	—	167	—	—
Montana	997	102	—	1,099	63	21
Utah	604	8	50	662	52	873
Wyoming	553	54	—	607	75	80
PAD District 5	10,953	226	611	11,790	5,200	1,278
Alaska	909	—	24	933	158	4
Arizona	872	—	—	872	—	688
California	5,073	225	324	5,622	3,163	304
Hawaii	324	1	260	585	785	77
Nevada	242	—	3	245	—	—
Oregon	1,286	—	—	1,286	122	—
Washington	2,247	—	—	2,247	972	205
U.S. Total	76,753	2,384	6,272	85,409	29,106	51,089

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D. Includes stocks held at biofuel production facilities.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, July 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	369	25	0	1,391	46,932	6,465	2,047	1,667	22,997
Petroleum Products	17,106	79	0	19,336	49,838	14,738	5,454	96,976	25,953
Natural Gas Liquids	6,868	70	0	7,179	38,246	10,686	607	920	10,252
Ethane	4,985	0	—	2	18,415	3,061	—	0	1,059
Propane	971	7	0	5,184	10,249	3,855	300	920	1,107
Normal Butane	261	39	0	1,956	4,512	1,747	256	0	382
Isobutane	347	24	0	37	1,555	609	51	0	885
Natural Gasoline	304	0	—	0	3,515	1,414	—	0	6,819
Refinery Olefins	0	0	—	434	583	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	434	583	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	50	0	0	0	1,306	—	0	50	670
Motor Gasoline Blending Components	7,171	0	0	1,040	1,278	2,213	0	56,296	6,846
Reformulated - RBOB	0	0	0	0	0	—	0	9,781	3,672
Conventional	7,171	0	0	1,040	1,278	2,213	0	46,515	3,174
CBOB	7,171	0	0	1,040	1,201	2,213	0	45,888	2,860
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	77	—	—	627	314
Biofuels (including Fuel Ethanol)	15	0	0	7,907	4,630	397	4,634	15	30
Fuel Ethanol	0	0	0	7,828	4,446	384	4,386	15	0
Biodiesel	15	0	0	79	185	14	249	0	30
Renewable Diesel Fuel	—	0	0	—	0	—	0	—	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	73	0	0	599	204	106	0	1,136	3,148
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	73	0	0	599	204	106	0	1,136	3,148
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	73	0	0	599	204	106	0	1,136	3,148
Finished Aviation Gasoline	—	0	—	0	0	—	—	44	—
Kerosene-Type Jet Fuel	359	0	0	128	62	710	0	14,890	1,174
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,549	0	0	1,182	1,073	611	0	22,592	3,364
15 ppm sulfur and under	2,549	0	0	1,182	1,073	611	0	21,994	3,247
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—	—	—	117
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	598	—
Residual Fuel Oil	0	0	—	—	687	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	117	—	—	—	0
Naphtha for Petrochemical Feedstock Use	0	0	—	—	94	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	23	—	—	—	0
Special Naphthas	0	0	—	—	50	—	—	—	24
Lubricants	0	0	—	0	9	—	—	541	190
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	9	0	217	1,212	10	16	52	16
Asphalt and Road Oil	21	0	0	649	381	5	197	440	227
Miscellaneous Products	0	0	—	—	0	—	—	—	12
Total	17,475	104	0	20,727	96,771	21,203	7,501	98,643	48,950

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, July 2022
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	36	0	27,323	436	0	0	0	0
Petroleum Products	5	5,684	0	23,197	5,057	1,872	0	20	172
Natural Gas Liquids	0	71	0	22,030	4,850	54	0	0	0
Ethane	0	—	0	7,196	2,098	—	0	0	0
Propane	0	0	0	7,516	1,314	45	0	0	0
Normal Butane	0	5	0	3,263	509	4	0	0	0
Isobutane	0	66	0	1,263	303	5	0	0	0
Natural Gasoline	0	—	0	2,792	626	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	276	0	0	0	0	0	0	—
Motor Gasoline Blending Components	0	3,261	0	232	0	1,055	0	0	0
Reformulated - RBOB	—	1,869	0	0	0	0	0	0	—
Conventional	0	1,392	0	232	0	1,055	0	0	0
CBOB	0	1,392	0	232	0	1,055	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Biofuels (including Fuel Ethanol)	0	654	0	0	0	65	0	0	19
Fuel Ethanol	0	259	0	0	0	65	0	0	0
Biodiesel	0	54	0	0	0	0	0	0	19
Renewable Diesel Fuel	—	341	—	—	0	0	—	0	—
Other Biofuels ²	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	316	0	65	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	316	0	65	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	316	0	65	0	0	0
Finished Aviation Gasoline	—	—	0	—	0	—	0	0	—
Kerosene-Type Jet Fuel	0	235	0	12	0	38	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	1,021	0	413	0	382	0	0	0
15 ppm sulfur and under	0	1,021	0	413	0	382	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	0	0	—	—	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	6	0	26	42	104	0	20	130
Asphalt and Road Oil	5	159	0	168	165	109	0	0	23
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	5	5,719	0	50,520	5,493	1,872	0	20	172

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, July 2022
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	219	25	120	46,690	6,465	115	22,997	0	-
Petroleum Products	16,734	0	8,426	39,819	14,326	76,600	23,505	0	4,517
Natural Gas Liquids	6,582	0	6,482	37,586	10,686	820	10,061	0	-
Ethane	4,985	0	2	18,415	3,061	0	1,059	0	-
Propane	909	0	4,796	9,888	3,855	820	1,061	0	-
Normal Butane	116	0	1,684	4,283	1,747	0	382	0	-
Isobutane	268	0	0	1,485	609	0	740	0	-
Natural Gasoline	304	0	0	3,515	1,414	0	6,819	0	-
Motor Gasoline Blending Components	7,171	0	508	1,140	2,213	45,574	6,354	0	3,261
Reformulated - RBOB	0	0	0	0	-	9,781	3,672	-	1,869
Conventional	7,171	0	508	1,140	2,213	35,793	2,682	0	1,392
CBOB	7,171	0	508	1,140	2,213	35,464	2,682	0	1,392
GTAB	-	-	-	-	-	-	-	-	-
Other	-	0	0	0	-	329	-	-	-
Biofuels (including Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Biodiesel	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-	-	-	-
Other Biofuels ¹	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	73	0	556	0	106	221	3,022	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	73	0	556	0	106	221	3,022	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	73	0	556	0	106	221	3,022	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	359	0	128	62	710	11,127	1,023	0	235
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,549	0	752	1,031	611	18,858	3,045	0	1,021
15 ppm sulfur and under	2,549	0	752	1,031	611	18,341	2,972	0	1,021
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	-	-	73	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	16,953	25	8,546	86,509	20,791	76,715	46,502	0	4,517

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, July 2022
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	27,323	263	—	0	0
Petroleum Products	0	23,003	4,850	1,540	0	0
Natural Gas Liquids	0	22,030	4,850	—	0	0
Ethane	0	7,196	2,098	—	0	0
Propane	0	7,516	1,314	—	0	0
Normal Butane	0	3,263	509	—	0	0
Isobutane	0	1,263	303	—	0	0
Natural Gasoline	0	2,792	626	—	0	0
Motor Gasoline Blending Components	0	232	0	1,055	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	232	0	1,055	0	0
CBOB	0	232	0	1,055	0	0
GTAB	—	—	—	—	—	—
Other	0	—	0	—	0	—
Biofuels (including Fuel Ethanol)	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Biodiesel	—	—	—	—	—	—
Renewable Diesel Fuel	—	—	—	—	—	—
Other Biofuels ¹	—	—	—	—	—	—
Finished Motor Gasoline	0	316	0	65	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	316	0	65	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	316	0	65	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	12	0	38	0	0
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	413	0	382	0	0
15 ppm sulfur and under	0	413	0	382	0	0
Greater than 15 ppm to 500 ppm sulfur	—	0	0	—	0	—
Greater than 500 ppm sulfur	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	—	—
Miscellaneous Products	—	—	—	—	—	—
Total	0	50,326	5,113	1,540	0	0

— = Not Applicable.

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, July 2022
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	150	0	—	362	0	—
Petroleum Products	50	0	0	1,246	3,205	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	50	0	0	0	1,306	0
Motor Gasoline Blending Components	0	0	—	532	138	—
Reformulated - RBOB	—	—	—	—	—	—
Conventional	0	0	—	532	138	—
CBOB	0	0	—	532	61	—
GTAB	—	—	—	—	—	—
Other	0	0	—	0	77	—
Biofuels (including Fuel Ethanol)	0	0	0	141	636	0
Fuel Ethanol	0	0	—	141	614	—
Biodiesel	0	0	—	—	22	—
Renewable Diesel Fuel	—	0	0	—	0	0
Other Biofuels ¹	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	43	204	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	43	204	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	43	204	—
Finished Aviation Gasoline	—	0	—	0	0	—
Kerosene-Type Jet Fuel	0	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	—	430	42	—
15 ppm sulfur and under	0	0	—	430	42	—
Greater than 15 ppm to 500 ppm sulfur	0	0	—	—	0	—
Greater than 500 ppm sulfur	—	0	—	0	0	—
Residual Fuel Oil	0	0	—	—	687	—
Less than 0.31 percent sulfur	0	0	—	—	94	—
0.31 to 1.00 percent sulfur	0	0	—	—	365	—
Greater than 1.00 percent sulfur	0	0	—	—	228	—
Petrochemical Feedstocks	0	0	—	—	117	—
Naphtha for Petrochemical Feedstock Use	0	0	—	—	94	—
Other Oils for Petrochemical Feedstock Use	0	0	—	—	23	—
Special Naphthas	0	0	—	—	50	—
Lubricants	0	0	—	0	9	—
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	100	16	—
Miscellaneous Products	0	0	—	—	0	—
Total	200	0	0	1,608	3,205	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, July 2022
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	1,552	—	1,552	—	0	—	0	0	0
Petroleum Products	20,097	—	888	19,209	2,176	617	0	0	0
Natural Gas Liquids	52	—	—	52	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	52	—	—	52	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	50	—	50	—	670	276	0	0	0
Motor Gasoline Blending Components	10,722	—	298	10,424	492	—	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	10,722	—	298	10,424	492	—	0	0	0
CBOB	10,424	—	—	10,424	178	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	298	—	298	—	314	—	0	0	0
Biofuels (including Fuel Ethanol)	15	—	—	15	0	341	0	0	0
Fuel Ethanol	15	—	—	15	0	—	0	0	0
Biodiesel	—	—	—	—	0	—	—	0	0
Renewable Diesel Fuel	—	—	—	—	—	341	—	—	0
Other Biofuels ¹	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	915	—	—	915	126	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	915	—	—	915	126	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	915	—	—	915	126	—	0	0	0
Finished Aviation Gasoline	44	—	—	44	—	—	0	—	0
Kerosene-Type Jet Fuel	3,763	—	226	3,537	151	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,734	—	—	3,734	319	—	0	0	0
15 ppm sulfur and under	3,653	—	—	3,653	275	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	44	—	—	0	0
Greater than 500 ppm sulfur	81	—	—	81	—	—	0	—	0
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Special Naphthas	—	—	—	—	24	—	—	0	0
Lubricants	541	—	314	227	190	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	261	—	—	261	192	—	0	0	0
Miscellaneous Products	—	—	—	—	12	—	—	0	0
Total	21,649	—	2,440	19,209	2,176	617	0	0	0

— = No Data Reported.

¹ Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, July 2022
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	909	242	0	2,047
Propane	62	7	0	0	388	361	0	300
Propylene	0	0	–	–	434	583	–	–
Normal Butane	145	39	0	0	272	229	0	256
Isobutane	79	24	0	0	37	70	0	51
Fuel Ethanol	0	0	0	0	7,687	3,832	384	4,386
Biodiesel	15	0	0	0	79	163	14	249
Marketable Petroleum Coke	0	9	0	0	217	1,212	10	16
Asphalt and Road Oil	21	0	0	0	549	365	5	197

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	36	0	0	173	0
Propane	48	46	0	0	0	0	0	45
Propylene	0	0	–	–	0	0	0	–
Normal Butane	0	0	0	5	0	0	0	4
Isobutane	0	145	0	66	0	0	0	5
Fuel Ethanol	0	0	0	259	0	0	0	65
Biodiesel	0	30	0	54	0	0	0	0
Marketable Petroleum Coke	52	16	0	6	0	26	42	104
Asphalt and Road Oil	179	35	5	159	0	168	165	109

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	–
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	19
Marketable Petroleum Coke	0	16	20	130
Asphalt and Road Oil	0	0	0	23

– = No Data Reported.

Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, July 2022
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	219	150	0	369
3	25	0	0	25
4	0	—	0	0
5	—	—	0	0
From 2 to				
1	120	362	909	1,391
3	46,690	0	242	46,932
4	6,465	—	0	6,465
5	—	—	2,047	2,047
From 3 to				
1	115	1,552	0	1,667
2	22,997	0	0	22,997
4	0	—	0	0
5	—	—	36	36
From 4 to				
1	0	0	0	0
2	27,323	0	0	27,323
3	263	0	173	436
5	—	—	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	—	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, July 2022
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	3,058	394	2,664	50,689	56,835	-6,146	47,393	24,700	22,693
Petroleum Products	116,311	17,185	99,127	66,272	89,367	-23,095	54,994	128,618	-73,623
Natural Gas Liquids	8,099	6,938	1,161	39,150	56,718	-17,568	43,166	11,243	31,923
Ethane	2	4,985	-4,983	13,240	21,478	-8,238	20,513	1,059	19,454
Propane	6,104	978	5,126	9,594	19,588	-9,994	11,570	2,027	9,543
Normal Butane	1,956	300	1,656	3,906	8,471	-4,565	5,060	387	4,673
Isobutane	37	371	-334	2,495	2,252	243	1,882	951	931
Natural Gasoline	0	304	-304	9,915	4,929	4,986	4,141	6,819	-2,678
Refinery Olefins	434	0	434	0	1,017	-1,017	583	0	583
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	434	0	434	0	1,017	-1,017	583	0	583
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	50	50	0	720	1,306	-586	1,306	996	310
Motor Gasoline Blending Components	57,336	7,171	50,165	14,249	4,531	9,718	1,278	66,403	-65,125
Reformulated - RBOB	9,781	0	9,781	3,672	0	3,672	0	15,322	-15,322
Conventional	47,555	7,171	40,384	10,577	4,531	6,046	1,278	51,081	-49,803
CBOB	46,928	7,171	39,757	10,263	4,454	5,809	1,201	50,140	-48,939
GTAB	0	0	-	-	-	-	-	-	-
Other	627	0	627	314	77	237	77	941	-864
Biofuels (including Fuel Ethanol)	7,922	15	7,908	45	17,569	-17,524	4,630	700	3,931
Fuel Ethanol	7,843	0	7,843	0	17,043	-17,043	4,446	274	4,172
Biodiesel	79	15	64	45	526	-481	185	85	100
Renewable Diesel Fuel	-	-	-	0	0	-	0	341	-341
Other Biofuels ²	-	-	-	0	0	-	0	0	-
Finished Motor Gasoline	1,735	73	1,662	3,537	909	2,628	204	4,284	-4,080
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	0	0	-	0	0	-	0	0	-
Conventional	1,735	73	1,662	3,537	909	2,628	204	4,284	-4,080
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	1,735	73	1,662	3,537	909	2,628	204	4,284	-4,080
Finished Aviation Gasoline	44	0	44	0	0	-	0	44	-44
Kerosene-Type Jet Fuel	15,018	359	14,659	1,545	900	645	62	16,299	-16,237
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	23,774	2,549	21,225	6,326	2,866	3,460	1,073	26,977	-25,904
15 ppm sulfur and under	23,176	2,549	20,627	6,209	2,866	3,343	1,073	26,262	-25,189
Greater than 15 ppm to 500 ppm sulfur	0	0	-	117	0	117	0	117	-117
Greater than 500 ppm sulfur	598	0	598	0	0	-	0	598	-598
Residual Fuel Oil	0	0	-	0	687	-687	687	0	687
Petrochemical Feedstocks	0	0	-	0	117	-117	117	0	117
Naphtha for Petrochemical Feedstock Use	0	0	-	0	94	-94	94	0	94
Other Oils for Petrochemical Feedstock Use	0	0	-	0	23	-23	23	0	23
Special Naphthas	0	0	-	24	50	-26	50	24	26
Lubricants	541	0	541	190	9	181	9	731	-722
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	269	9	260	58	1,455	-1,397	1,282	74	1,208
Asphalt and Road Oil	1,089	21	1,068	416	1,233	-817	547	831	-284
Miscellaneous Products	0	0	-	12	0	12	0	12	-12
Total	119,369	17,579	101,791	116,961	146,201	-29,240	102,387	153,317	-50,930

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, July 2022
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,465	27,759	-21,294	2,083	0	2,083
Petroleum Products	14,915	30,126	-15,212	13,010	207	12,802
Natural Gas Liquids	10,686	26,934	-16,248	732	0	732
Ethane	3,061	9,294	-6,233	0	0	—
Propane	3,855	8,875	-5,020	345	0	345
Normal Butane	1,747	3,776	-2,029	265	0	265
Isobutane	609	1,571	-962	122	0	122
Natural Gasoline	1,414	3,418	-2,004	0	0	—
Refinery Olefins	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—
Propylene	0	0	—	0	0	—
Normal Butylene	0	0	—	0	0	—
Isobutylene	0	0	—	0	0	—
Unfinished Oils	0	0	—	276	0	276
Motor Gasoline Blending Components	2,213	1,287	926	4,316	0	4,316
Reformulated - RBOB	—	—	—	1,869	0	1,869
Conventional	2,213	1,287	926	2,447	0	2,447
CBOB	2,213	1,287	926	2,447	0	2,447
GTAB	—	—	—	—	—	—
Other	0	0	—	0	0	—
Biofuels (including Fuel Ethanol)	416	65	351	5,353	19	5,335
Fuel Ethanol	384	65	319	4,709	0	4,709
Biodiesel	32	0	32	303	19	285
Renewable Diesel Fuel	0	0	—	341	0	341
Other Biofuels ²	0	0	—	0	0	—
Finished Motor Gasoline	106	381	-275	65	0	65
Reformulated	—	—	—	0	0	—
Reformulated Blended with Fuel Ethanol	—	—	—	0	0	—
Reformulated Other	—	—	—	—	—	—
Conventional	106	381	-275	65	0	65
Conventional Blended with Fuel Ethanol	0	0	—	0	0	—
Ed55 and Lower	0	0	—	0	0	—
Greater than Ed55	0	0	—	0	0	—
Conventional Other	106	381	-275	65	0	65
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	710	50	660	273	0	273
Kerosene	0	0	—	0	0	—
Distillate Fuel Oil	611	795	-184	1,403	0	1,403
15 ppm sulfur and under	611	795	-184	1,403	0	1,403
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—
Greater than 500 ppm sulfur	0	0	—	0	0	—
Residual Fuel Oil	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—
Lubricants	0	0	—	0	0	—
Waxes	—	—	—	0	0	—
Marketable Petroleum Coke	140	172	-32	127	166	-39
Asphalt and Road Oil	33	442	-409	464	23	442
Miscellaneous Products	0	0	—	0	0	—
Total	21,380	57,885	-36,505	15,092	207	14,885

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Other Biofuels includes renewable heating oil, renewable jet fuel, renewable naphtha and gasoline, and other biofuels and biointermediates.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

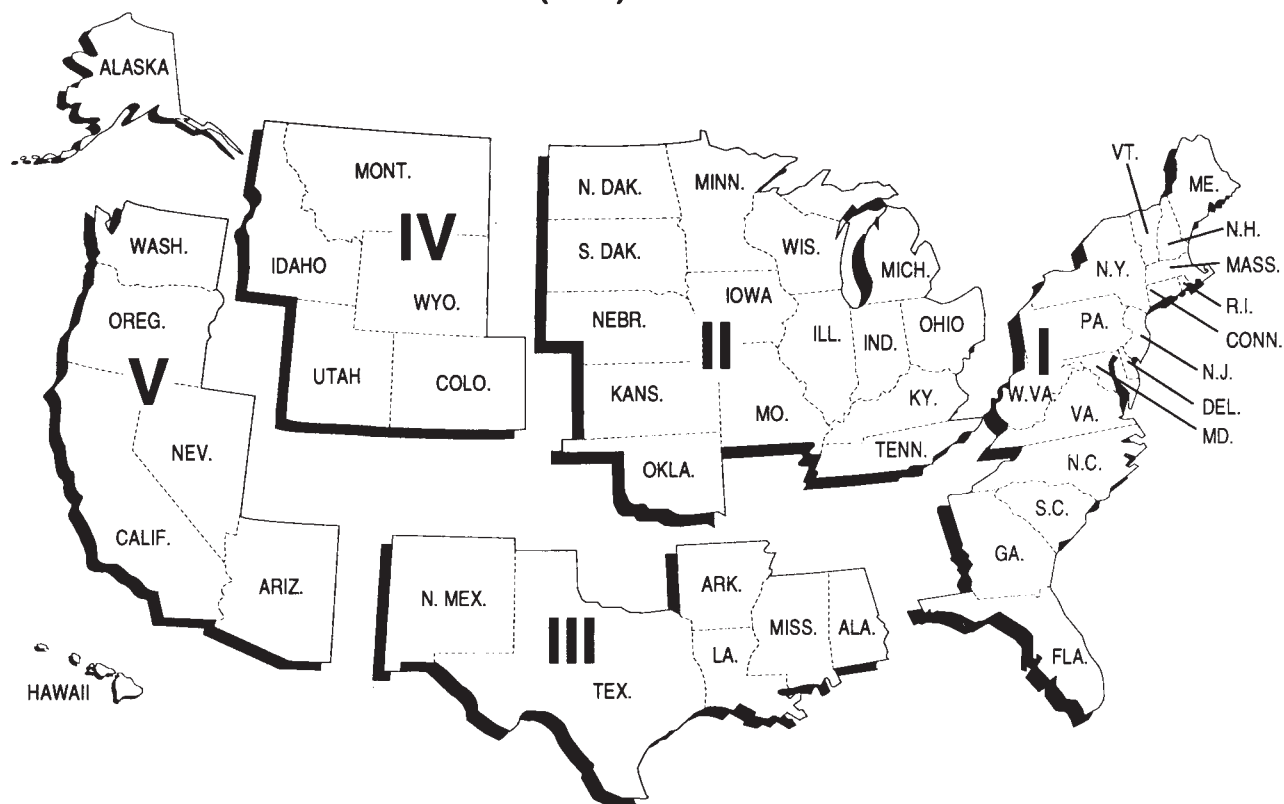
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

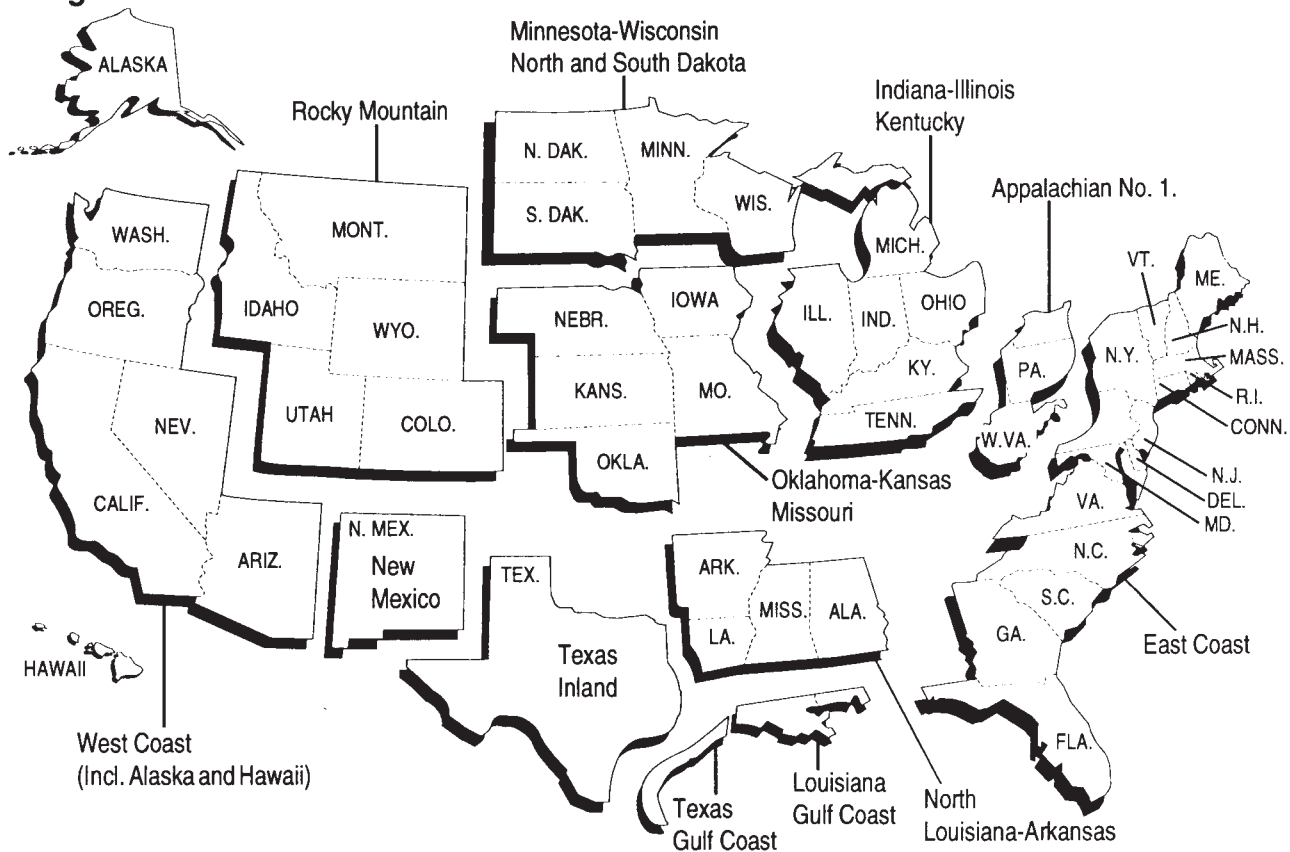
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Refining Districts



Appendix B. Explanatory Notes

Preface

The *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are reports produced by the Monthly Petroleum Supply Reporting System (MPSRS) operated by the U.S. Energy Information Administration (EIA). The PSM and PSA track supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels.

Data presented in the PSM and PSA describe supply and disposition of crude oil, hydrocarbon gas liquids, petroleum products, and biofuels in the United States, and major U.S. geographic regions with selected data available at the state level. Data describe production, imports, exports, inter-Petroleum Administration for Defense District (PADD) movements, and inventories in the United States (50 States and the District of Columbia). The reporting universe includes operators engaged in primary supply activities including refining, motor gasoline blending, natural gas processing and fractionation, inter-PADD transportation, importers, and major inventory holders. When aggregated, data reported by operators in these sectors are used to derive consumption of petroleum products in the United States.

Monthly and year-to-date data are normally released in the PSM on the last business day of each month. Monthly data are available approximately 60 days after the end of each reference month. Revised monthly data and annual totals and averages are released in the PSA usually at the end of August each year.

Overview

A. The Energy Information Administration's Quality Guidelines

Data contained in the *Petroleum Supply Monthly* (PSM) and *Petroleum Supply Annual* (PSA) are subject to information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM and PSA are used for calculation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum product barrels from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries, bulk storage and blending terminals, natural gas processing plants and fractionators, biofuels and oxygenate production plants, imports, exports, and transportation by pipelines, tankers, barges, and railroads. Total product supplied at the U.S. level is equal to the sum of field production (including production of crude oil and natural gas liquids from natural gas processing plants), refinery and blender net production, biofuels plant net production, imports, and adjustments, minus the sum of stock change, refinery and blender net inputs, and exports. Net receipts are added to supply when product supplied is calculated for Petroleum Administration for Defense Districts (PADD). Crude oil product supplied is zero after September 1997 because crude oil is processed in refineries to produce fuels and other products rather than being used directly as fuel. Data include crude oil used directly as fuel between January 1981 and September 1997.

The secondary supply chain falls between primary supply and end-users. Product barrels typically flow in bulk quantities from primary supply into secondary supply before delivery to consumers. Fuels and other products held by consumers are considered to be in tertiary supply. Secondary supply facilities and activities include storage at bulk plants and retail outlets. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, as defined by EIA, receive product only by rail or truck, but not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, fuel and nonfuel products held by end users, and certain proprietary storage of raw materials such as propane held at chemical plants for use as ethylene feedstock. EIA includes tertiary stocks of natural gas liquids (ethane, propane, normal butane, isobutane, and natural gasoline) held by storage operators with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker, or barge in primary stocks.

There is a delay between the time when barrels are reported as demand measured as product supplied and when the same barrels are actually consumed. The delay is due to the time required for barrels to move from primary supply through secondary and tertiary supply chains and ultimately to end users where the barrels are actually consumed as fuel, feedstock, or for other purposes. Users of demand measured as product supplied should expect product supplied to either anticipate or lag timing of actual petroleum consumption.

C. Components of Supply and Disposition

The detailed statistics tables in the *PSM* provide complete supply and disposition information for the current month and year to date. The tables are organized to locate national and PADD supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. EIA provides the following discussion to assist with interpretation of supply and disposition tables 1-25. The [EIA glossary](#) contains definitions of products and other terms used on tables.

(1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas liquids production (NGL) from natural gas processing plants.

Sources of crude oil production data include state government agencies, Department of the Interior, Bureau of Safety and Environmental Enforcement (and predecessor agencies), first purchase data reported on Form EIA-182, "Domestic Crude Oil First Purchase Report", and Form EIA-914 "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report. Refer to "Domestic Crude Oil Production" in Section 2C(1) for further details.

Field production of NGL is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Biofuels Plant Net Production – biofuels production included fuel ethanol beginning with data for January 2009, biodiesel beginning with data for January 2011, and biofuels (diesel, heating oil, jet, naphtha, gasoline, and other biofuels and biointermediates) beginning with data for January 2021. EIA included production of fuel oxygenates (ethyl tertiary butyl ether (ETBE), methyl tertiary butyl ether (MTBE), and other fuel oxygenates) as a component of the petroleum balance from January 2009 until December 2018. This supply category also includes net production of non-biofuel products, including petroleum-derived gasoline, distillate fuel oil, jet fuel, and kerosene and natural gas liquids, blended with biofuels as denaturants or for other purposes at biofuel producing plants. Negative production indicates the amount of a product produced during the month was less than the amount of that same product reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Forms EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 62.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, hydrogen, and "other" hydrocarbons. EIA calculates adjustment quantities to balance supply and disposition or to reclassify one product to another product. EIA calculates product supplied as the balancing item for most products and a measure of implied demand for petroleum products. EIA uses adjustments as balance items in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, biofuels plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District. EIA discontinued reporting adjustment quantities for non-fuel ethanol biofuels and distillate fuel oil beginning with data for January 2021. Beginning with data for January 2021, EIA uses product supplied as the balance quantity for biofuels excluding fuel ethanol.

(2.) Disposition

a. **Stock Change** – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month's publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. **Refinery and Blender Net Inputs** – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, hydrocarbon gas liquids, hydrogen, biofuels, and other hydrocarbons) processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Refinery and blender input of natural gas liquids equal gross input of natural gas liquids received from natural gas plants for blending and processing.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery and blender input minus refinery and blender production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. **Exports** - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. **Products Supplied** - Products supplied is a calculated measure of demand equal to field production, plus biofuels plant net production, plus refinery and blender net production, plus imports, (plus net receipts when calculated by PADD), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied values indicate quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PADD basis, the figure for net receipts was inaccurate because the coverage of inter-PADD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported (e.g. unfinished oils received at refineries for processing from petrochemical plants).

EIA reported crude oil burned as fuel on leases and by pipelines as either distillate or residual fuel oil product supplied prior to January 1983. EIA reported crude oil product supplied equal to crude oil used directly as reported on Form EIA-813 "Monthly Crude Oil Report" from January 1983 through December 2009. EIA discontinued reporting crude oil used directly on Form EIA-813 after December 2009.

(3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of midnight on the last day of each month. Primary stocks include crude oil, hydrocarbon gas liquids, biofuels, and petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, biofuel production plants, and bulk terminals. Ending stocks also include stocks in transit by rail, truck, and water reported at destination facilities. EIA primary stocks include NGL (ethane, propane, normal butane, isobutane, and natural gasoline) held by end-user storage operators (i.e. tertiary storage) with at least 50,000 barrels of storage capacity and capability to ship barrels by pipeline, tanker.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks (except stocks of NGL held by end users with storage capacity of at least 50,000 barrels and capability to ship NGL by pipeline, tanker, or barge) held by consumers. EIA excludes product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported in the PSM and PSA, but EIA provides stock quantities held in selected government reserves in Appendix D.

Primary stocks of crude oil included barrels held on crude oil producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in on eia.gov were revised beginning with data for January 2005 to exclude lease stocks. Data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbl_m_cur.htm

http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm

http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbl_m.htm

2. Components - Forms Discussions

The data presented in the *PSM* include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data collected on Form EIA-914 as well as production data from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and hydrocarbon gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the six weekly surveys. The MPSRS includes eight monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery and Fractionator Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Bulk Terminal Report,"
6. EIA-809, "Weekly Oxygenate Report,"
7. EIA-22M, "Monthly Biodiesel Production Survey," (discontinued effective with data for October 2020)
8. EIA-810, "Monthly Refinery Report,"
9. EIA-812, "Monthly Product Pipeline Report,"
10. EIA-813, "Monthly Crude Oil Report,"
11. EIA-814, "Monthly Imports Report,"
12. EIA-815, "Monthly Bulk Terminal Report."
13. EIA-816, "Monthly Natural Gas Liquids Report"
14. EIA-817, "Monthly Tanker and Barge Movement Report"
15. EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene" (formerly "Monthly Oxygenate Report")
16. EIA-820, "Annual Refinery Report."

EIA administers weekly and monthly surveys at six key points along the petroleum and biofuel supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and plants producing biofuels and fuel oxygenates. EIA also collects inter-PADD movements by pipelines, tankers, and barges using monthly surveys. Weekly surveys do not capture petroleum movements. EIA selects a sample of operators reporting on monthly surveys to also report

on weekly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, “Annual Refinery Report.” The EIA-820 data are published in the annual “Refinery Capacity Report.”

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at:

<https://www.eia.gov/survey/>

Form EIA-22M “Monthly Biodiesel Production Survey” collected data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales until data for September 2020. EIA discontinued Form EIA-22M effective with data for October 2020, and incorporated data previously collected on Form EIA-22M into Form EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene.

Form EIA-810, “Monthly Refinery Report,” collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on an annual basis.

Form EIA-812, “Monthly Product Pipeline Report,” collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included.

Form EIA-813, “Monthly Crude Oil Report,” collects data on end-of-month stock levels of crude oil held in pipelines, and at tank farms operated by the reporting company, and Alaskan crude oil in transit by water. Data are reported by PADD including stocks held in the 50 states and the District of Columbia. In addition to stocks, EIA uses Form EIA-813 to collect inter-PADD movements of crude oil by pipeline. EIA collects movements for shipping and receiving PADDs with no intermediate PADD movements. EIA uses Form EIA-813 to collect annual storage capacity in data for the month of March.

Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil and unfinished oils only.

Form EIA-815, “Monthly Bulk Terminal Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on an annual basis.

Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

Form EIA-819, “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane and Isooctene” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Beginning in October 2020 it also collects facility-level data on biodiesel and biofuels production and blending and end-of-month stocks. Plant operators report end-of-month stocks on site on a custody basis regardless of ownership as well as stocks in transit by rail, truck, and water to their plants.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” included operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes. EIA discontinued using Form EIA-22M in October 2020 and replaced it with data collected on Form EIA-819 “Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene”.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Bulk Terminal Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and

has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, "Monthly Natural Gas Liquids Report" include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, "Monthly Tanker and Barge Movement Report" include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, "Monthly Report of Biofuels, Fuels from Non-Biogenic Wastes, Fuel Oxygenates, Isooctane, and Isooctene" include all operators of facilities that produce (manufacture or distill) fuel alcohol, biodiesel, renewable diesel, heating oil, jet fuel, naphtha, gasoline and other biofuels and biointermediates, isooctane, isooctene and fuel oxygenates other than fuel alcohol (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations) located in the 50 States and the District of Columbia.

(3.) Collection

Survey data for the MPSRS are collected by Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Where possible, EIA uses imputed values to account for activity when a company fails to file. Depending on the survey, imputed values may be estimates based on weekly reports, estimates equal to prior-month reported quantities, or estimates based on non-survey data (e.g. imports quantities may be imputed using data provided to EIA by U.S. Customs and Border Protection). Imputation normally accounts for very small quantities in published totals because response rates to monthly surveys tend to be very high, typically exceeding 98 percent calculated as total reports received divided by total reports expected.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in

the Petroleum Supply Annual (PSA).

(6.) Macro Editing

EIA compares data reported by individual companies and plants on monthly and weekly surveys. EIA uses these comparisons to identify cases where reporting companies responded differently to the same or similar questions on weekly and monthly surveys and then works with reporting companies to identify and address inconsistent or erroneous reporting on surveys. EIA also compares aggregate and other data with external sources in order to identify and correct potential errors in reporting or survey methodology. EIA makes additional comparisons of survey data with model results. EIA may use imputation to correct known and/or suspected errors in data reported in the Petroleum Supply Monthly and Petroleum Supply Annual.

(7.) Dissemination

In most cases, EIA releases *PSM* data within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available in HTML format on [eia.gov](http://www.eia.gov). Features include: downloadable spreadsheets containing complete data history, data tables which “pivot” to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum data can be accessed at:

<http://www.eia.gov/petroleum/data.cfm>

C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the *PSM* are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the *PSM*, are based on:

(a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;

(b.) crude oil production data reported on Form EIA-914, “Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report.” For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.

(c.) first purchase data reported on Form EIA-182 “Domestic Crude Oil First Purchase Report.” For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, “Production of Crude Oil by PAD District and State.” Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly ([http:// www.eia.gov/petroleum/supply/monthly/](http://www.eia.gov/petroleum/supply/monthly/)) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a “Shipper’s Export Declaration Document” with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil and select products by railroad

The volume of crude oil, ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA’s Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-914 survey starting in January 2015, and an estimation procedure developed by EIA for months in which these data are not available.

Additional data from the NEB, OGSM, and the EIA-914 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, renewable diesel, propane, propylene, normal butane, isobutane, petroleum coke, and asphalt are converted to barrels using data from the CWS.

The most current monthly STB waybill sample may not be received with sufficient lead time to be processed and included in the PSM publication. Further, STB aggregates and provides waybills based on the accounting period, while EIA is interested in the waybill date, which can differ by several months from the accounting period. In addition, waybills from non-Class I railroads might only be included in the sample for the last month of a calendar quarter. As a result, EIA may estimate anywhere from one to three months of rail movements, relying on historical averages or near-month model estimates for those months to be published in the PSM for which incomplete or no STB data are available.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum data html tables are updated with final data for a year.

from the Petroleum Supply Annual, Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the "lease adjustment," a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the "lease adjustment" could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Liquids (NGL) Adjustment

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGL injection into Alaskan crude oil transported in TAPS. Natural gas processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGL production is added to refinery receipts and inputs of NGPL. The adjusted NGL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS- NGL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and natural gasoline also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

Note on MTBE Adjustment: The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), "other" motor gasoline blending components, fuel ethanol, and MTBE. The quantity of

GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each PADD. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PADD. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PADD. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PADD. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PADD, then the total adjustment quantity of finished conventional motor gasoline in that PADD would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PADD.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and biofuels plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for

reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Biofuels including Fuel Ethanol Adjustment

For data prior to January 2021, adjustment quantities for biofuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Calculation of adjustment quantities by PADD depend on the product. Individual products include fuel ethanol, biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). Product supplied for biofuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” biofuels are discussed separately below. Beginning with data for January 2021, EIA discontinued calculating adjustment quantities for biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). EIA now includes these adjustment quantities as product supplied.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.
- The product category called “biofuels (excluding fuel ethanol)” includes biodiesel, renewable diesel fuel, and other biofuels (e.g. bio-jet fuel). For PSM data prior to January 2012, EIA calculated adjustment quantities for biofuels (excluding fuel ethanol) at the U.S. and PADD levels equal to the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Biofuels (excluding Fuel Ethanol) was unavailable and was excluded from Biofuels Plant Net Production. Therefore the calculation of adjustments to Biofuels (excluding Fuel Ethanol) caused production to be included in the adjustment. Similarly, the calculation caused net inter-PADD movements (i.e. net receipts) by rail and truck to also be included in adjustments to biofuels (excluding fuel ethanol).

Beginning with PSM data for January 2012, and PSA data for 2011 through December, 2020 production of biodiesel reported on Form EIA-22M was included under the heading of “biofuels plant net production” in petroleum supply and disposition balances for “biofuels (excluding fuel ethanol)”. As a result, the adjustment for “biofuels (excluding fuel ethanol)” excludes production of biodiesel beginning with data for January 2012. Beginning with data for January 2010 EIA included rail movements of biodiesel in inter-PADD movements, and so rail movements were excluded from adjustment quantities.

- For data prior to January 2021, biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of biofuels plant net production and imports. Adjustment quantities by PADD equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, biofuels plant net production, and net receipts. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppms sulfur and under) through distillate fuel oil adjustments. EIA discontinued calculating biodiesel and distillate fuel oil adjustment quantities beginning with data for January 2021. EIA now includes barrels of biodiesel formerly reported in adjustment quantities as product supplied of biofuels (excluding fuel ethanol).

Beginning with PSM data for January 2021, EIA included production of renewable diesel, heating oil, jet

fuel, naphtha, gasoline, and other biofuels and biointermediates reported on Form EIA-819 under the heading of “biofuels plant net production” in petroleum supply and disposition balances for “biofuels (excluding fuel ethanol)”. EIA now reports barrels formerly included in adjustment quantities as product supplied.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010.

For PSM data from January 2012 and PSA data from January 2011 through December 2020, EIA calculated distillate fuel oil adjustments equal to the opposite of biodiesel adjustment quantities described above in section 8. EIA added biodiesel adjustment quantities to supply of distillate fuel oil (15 ppm sulfur and under) and total distillate fuel oil. EIA assumed that distillate fuel oil adjustment quantities reflected biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Beginning with data for January 2021, EIA discontinued calculating and reporting distillate fuel oil adjustment quantities.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of biofuels plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol). Beginning with PSA data for 2019, EIA excluded oxygenates supply and disposition from U.S. and regional balance tables.

3. Quality

A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the previously published Petroleum Supply Annual every month in petroleum data tables (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in petroleum data tables.

B. Data Assessment

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

4. Provisions Regarding Disclosure of Information

All PSRS survey forms, with the exception of the Form EIA-814, “Monthly Imports Report,” have the same general

disclosure information statement. The information reported on Form EIA-814 will be considered “public information” and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form. In addition, biofuel production capacity data reported on Form EIA-819 and Form EIA-22M will be released in company identifiable form. Refinery distillation capacity collected on Form EIA-810 also may be released in company identifiable form. EIA releases annual refinery input and production capacities in company identifiable form each year in the Annual Refinery Capacity Report.

Except as described above, information reported on Forms EIA-810 through 813, 815 through 817, 819, 820, and 22M will be protected and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. § 552, the Department of Energy (DOE) regulations, 10 C.F.R. § 1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. § 1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data aggregated and published from these survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	201
Gulf Oil LP	Chelsea, MA	200

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
Kinder Morgan Liq Terminals LLC	Carteret, NJ	0
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	700
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	83
Fuel Ethanol	NY	9
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised June 2021)

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$ (e.g., methanol, ethanol, and tertiary butyl alcohol).

Alkylate. The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

Alkylation. A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Atmospheric Crude Oil Distillation. The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

Aviation Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

Aviation Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel. A unit of volume equal to 42 U.S. gallons.

Barrels Per Calendar Day. The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Benzene (C_6H_6). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

Biomass-Based Diesel Fuel. Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

Blending Components. See *Motor or Aviation Gasoline Blending Components*.

Blending Plant. A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

Bonded Petroleum Imports. Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

BTX. The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

Bulk Station. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

Bulk Terminal. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

Butane (C_4H_{10}). A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Normal Butane (C_4H_{10}). A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

Refinery-Grade Butane (C_4H_{10}). A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

Butylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes.

Captive Refinery Oxygenate Plants. Oxygenate production facilities located within or adjacent to a refinery complex.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Feeds that are continuously fed back for additional processing.

Catalytic Hydrocracking. A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

Catalytic Hydrotreating. A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

Catalytic Reforming. A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

High Pressure. A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

Charge Capacity. The input (feed) capacity of the refinery processing facilities.

Coal. A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Commercial Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Conventional Blendstock for Oxygenate Blending (CBOB). See *Motor Gasoline Blending Components*.

Conventional Gasoline. See *Motor Gasoline (Finished)*.

Crude Oil. A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

Domestic. Crude oil produced in the United States or from its Outer continental shelf as defined in 43 USC 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

Crude Oil, Refinery Receipts. Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

Crude Oil Losses. Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

Crude Oil Production. The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

Crude Oil Qualities. Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

Delayed Coking. A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

Desulfurization. The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See *Catalytic Hydrotreating*.

Disposition. The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

No. 1 Distillate. A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 1 Diesel Fuel. A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See *No. 1 Distillate*.

No. 1 Fuel Oil. A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See *No. 1 Distillate*.

No. 2 Distillate. A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 2 Diesel Fuel. A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See *No. 2 Distillate*.

Low Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

High Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

No. 2 Fuel Oil (Heating Oil). A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in

atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See **No. 2 Distillate**.

No. 4 Fuel. A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

No. 4 Diesel Fuel. See **No. 4 Fuel**.

No. 4 Fuel Oil. See **No. 4 Fuel**.

Electricity (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

ETBE (Ethyl tertiary butyl ether) (CH₃)₃COC₂H₅. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C₂H₆). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

Ether. A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

Ethylene (C₂H₄). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

Exports. Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

Flexicoking. A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

Fluid Coking. A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

Fresh Feed Input. Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

Fuel Ethanol (C₂H₅OH). An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

Fuels Solvent Deasphalting. A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

Gasohol. A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See **Oxygenates**.

Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Gasoline Treated as Blendstock (GTAB). See **Motor Gasoline Blending Components**.

Gross Input to Atmospheric Crude Oil Distillation Units. Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

High-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 500 ppm.

Hydrogen. The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Idle Capacity. The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Imports. Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Isobutane (C_4H_{10}). A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

Isobutylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C_6H_{14}). A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C_4), an alkylation process feedstock, and normal pentane and hexane into isopentane (C_5) and isohexane (C_6), high-octane gasoline components.

Isopentane. See *Natural Gasoline and Isopentane*.

Kerosene. A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel*.

Kerosene-Type Jet Fuel. A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

Commercial. Kerosene-type jet fuel intended for use in commercial aircraft.

Military. Kerosene-type jet fuel intended for use in military aircraft.

Lease Condensate. A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids*.

Light Gas Oils. Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

Liquefied Petroleum Gases (LPG). A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

Low-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

Lubricants. Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

Merchant Oxygenate Plants. Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

Methanol (CH_3OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

Middle Distillates. A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

Military Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Miscellaneous Products. Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

Conventional Gasoline. Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Ed 55 and Lower. Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

Greater than Ed55. Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

OPRG. "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

Oxygenated Gasoline (Including Gasohol). Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

Reformulated Gasoline. Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

Reformulated (Blended with Alcohol). Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

Reformulated (Blended with Ether). Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

Reformulated (Non-Oxygenated). Reformulated gasoline without added ether or alcohol components.

Motor Gasoline Blending. Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Conventional Blendstock for Oxygenate Blending (CBOB). Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

Gasoline Treated as Blendstock (GTAB). Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

Reformulated Blendstock for Oxygenate Blending (RBOB). Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

RBOB for Blending with Alcohol. Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

RBOB for Blending with Ether. Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

All Other Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g., fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

MTBE (Methyl tertiary butyl ether) $(CH_3)_3COCH_3$. An ether intended for gasoline blending as described in Oxygenate definition.

Naphtha. A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

Naphtha Less Than 401° F. See *Petrochemical Feedstocks*.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

Natural Gas. A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Liquids. Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

Natural Gas Plant Liquids. Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Natural Gas Processing Plant. Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C_5H_{12}) , obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Receipts. The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

Normal Butane. See *Butane*.

OPEC. The Organization of the Petroleum Exporting Countries (OPEC) was founded in Baghdad, Iraq, with the signing of an agreement in September 1960 by five countries namely Islamic Republic of Iran, Iraq, Kuwait, Saudi Arabia and Venezuela. They were to become the Founder Members of the Organization. These countries were later joined by Qatar (1961), Indonesia (1962), Libya (1962), the United Arab Emirates (1967), Algeria (1969), Nigeria (1971), Ecuador (1973), Gabon (1975), Angola (2007), Equatorial Guinea (2017) and Congo (2018). Ecuador suspended its membership in December 1992, rejoined OPEC in October 2007, but decided to withdraw its membership of OPEC effective 1 January 2020.

Indonesia suspended its membership in January 2009, reactivated it again in January 2016, but decided to suspend its membership once more at the 171st Meeting of the OPEC Conference on 30 November 2016. Gabon terminated its membership in January 1995. However, it rejoined the Organization in July 2016. Qatar terminated its membership on 1 January 2019.

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Operable Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Operating Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes coal tar derivatives and gilsonite. Included hydrogen in data prior to January 2009 and excluded hydrogen thereafter. Excludes natural gas used for fuel or hydrogen feedstock.

Other Oils Equal To or Greater Than 401° F. See **Petrochemical Feedstocks**.

Other Oxygenates. Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Oxygenated Gasoline. See **Motor Gasoline (Finished)**.

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed

3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Persian Gulf. The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

Naphtha Less Than 401° F. A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401° F. Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

Petroleum Administration for Defense (PAD) Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

Petroleum Coke. A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Catalyst Coke. In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet

fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Pipeline (Petroleum). Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Processing Gain. The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

Processing Loss. The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

Product Supplied, Crude Oil. Crude oil burned on leases and by pipelines as fuel.

Production Capacity. The maximum amount of product that can be produced from processing facilities.

Products Supplied. Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

Propane (C_3H_8). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene (C_3H_6). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C_3H_6) (nonfuel use). Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

Refinery-Grade Butane. See *Butane*.

Refinery Input, Crude Oil. Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

Refinery Input, Total. The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

Refinery Production. Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

Refinery Yield. Represents the percent of finished product produced from input of crude oil, hydrogen, and other hydrocarbons, and net input of unfinished oils. Except for finished motor gasoline, finished aviation gasoline, and distillate fuel oil, EIA calculates refinery yield equal to net production of a finished petroleum product divided by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of finished motor gasoline, subtract input of natural gas liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components from net production of finished motor gasoline and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of finished aviation gasoline, subtract net input of aviation gasoline blending components from net production of finished aviation gasoline and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. In the case of distillate fuel oil, subtract input of renewable fuels except fuel ethanol (including input of biodiesel, renewable diesel fuel, and other renewable fuels) from distillate fuel oil net production and then divide by the sum of input of crude oil, hydrogen, other hydrocarbons, and net input of unfinished oils. Prior to data for January 2009, EIA calculated refinery yields (except for finished motor gasoline) equal to finished product net production divided by the sum of input of crude oil and net input of unfinished oils. EIA calculated refinery yield of finished motor gasoline equal to net production of finished motor gasoline minus the sum of input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components divided by the sum of input of crude oil and net input of unfinished oils.

Reformulated Blendstock for Oxygenate Blending (RBOB). See *Motor Gasoline Blending Components*.

Reformulated Gasoline. See *Motor Gasoline (Finished)*.

Renewable Fuels (Other). Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

Residual Fuel Oil. A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Residuum. Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Shell Storage Capacity. The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

Stock Change. The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Sulfur. A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No.

2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Supply. The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

TAME (Tertiary amyl methyl ether) $(CH_3)_2(C_2H_5)COCH_3$. An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

Tank Farm. An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

Tanker and Barge. Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal to a PAD District.

TBA (Tertiary butyl alcohol) $(CH_3)_3COH$. An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

Toluene $(C_6H_5CH_3)$. Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

Ultra-Low Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

Unaccounted for Crude Oil. Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils. All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils,

kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding, those in plant condensate. This product is extracted from natural gas.

United States. The United States is defined as the 50 States and the District of Columbia.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

Wax. A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in

which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Working Storage Capacity. The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

Xylene ($C_6H_4(CH_3)_2$). Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.